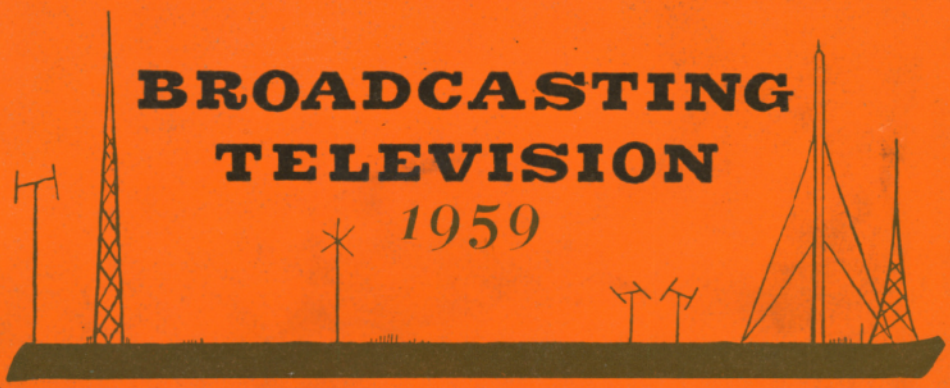
WORLD RADIO HANDBOOK

for listeners



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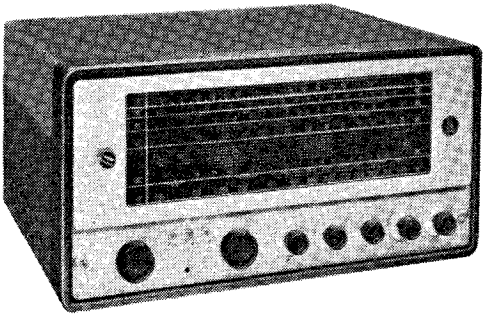

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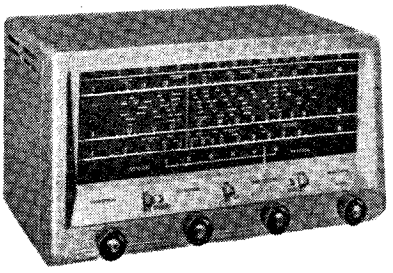

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CYPRUS: Cyprus Broadcasting Service.

CZECHOSLOVAKIA: Ceskoslovensky rozhlas.

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WORLD RADIO HANDBOOK

BROADCASTING-TELEVISION 1959

including World-wide Radio WHO's WHO

Thirteenth Edition

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TABLE OF CONTENTS

Preface 5
United Nations: When things get »HOT« 7
Long and Medium Wave Reception 8
Shortwave Radio Conditions during 1959 .. 10—11
Broadcasting Organizations ..... 15—16—42
World Time in all Countries 18
Table of allocation of call signs 21
Table of the most suitable metre bands 24
How to use the WRH ..... 28—30
Number of receivers in use in each country .. 36
Frequency bands allocated to Broadcasting, Television and Amateurs 39
DX-Programmes 39
Abbreviations 40
A World Survey of Sound Broadcasting .. 47—158
Standard Frequency Stations 159
A World Survey of Television ..... 160—168
Short Wave Stations of the World ..... 172—186
Last minute information and corrections 186
DX-Clubs 168
Where to obtain the WRH. Representations and Collaborators 168
World Charts: Europe 32, 34 — **Africa** 89 **East** 103 — **Pacific** 119 — **No. America** 127 — **Central America** 141 — **So. America** 141
Pictures from the World 27, 91, 111, 129

Aden 101
Afghanistan 101
Albania 47
Algeria 88
Andorra 47
Aruba 144
Angola 88
Argentina 146
Australia 121
Austria 47
Azores 47
Bahamas BWI 136
Bahrain 101
Barbados BWI 136
Bechuanaland 90
Belgian Congo 90
Belgium 48
Bermuda BWI 136
Bolivia 147
Borneo North 105
Brazil 147
Brunei (British) 105
Bulgaria 48
Burma 105
Cambodia 105
Cameroon 92
Canada 125
Canary Islands 92
Canton Islands 123
Cape Verde Islands . 92
Ceylon 105
Chile 150
China, Peoples Rep. of 106
Colombia 152
Comoros Isl. 93
Cook Islands 123
Costa Rica 137
Cuba 137
Curaçao 143
Cyprus 101
Czechoslovakia 49
Dahomey 93
Denmark 51
Dominican Republic . 139
Ecuador 153
Egypt, Un. Ar. Rep. 93
El Salvador 139
Eritrea 93
Ethiopia 93
Falkland Islands ... 155
Faeroe Islands 51
Fiji Islands, British . 123
Finland 51
France 52
Fr. Equat. Africa ... 93
Germany Federal Rep. 55
Germany Dem. Rep. . 62
Gilbert and Ellice Islands 123
Goa 107
Ghana 94
Gibraltar 62
Great Britain 63
Greece 66
Greenland 67
Guadeloupe 140
Guam 124
Guatemala 140
Guiana, British 155
Guiana, Dutch 156
Guiana, French 155
Guinea 94
Guinea, Portuguese . 94
Guinea, Spanish 94
Haiti 142
Hawaii 123
Holland 67
Honduras, British .. 143
Honduras, Rep. 143
Hong Kong 107
Hungary 68
Iceland 69
India 107
Indonesia 108
Iran 102
Iraq 102
Ireland 69
Israel 102
Italy 69
Ivory Coast 94
Jamaica BWI 143
Japan 109
Johnston Island 124
Jordan 104
Kenya 94
Korea Peop. Dem. R. 115
Korea Rep. 115
Kuwait 104
Laos 115
Lebanon 104
Leeward Islands 143
Liberia 95
Libya 95
Luxembourg 70
Macau 115
Madagascar 95
Madeira 71
Malaya (Federation) . 115
Malta 71
Mariana Islands ... 124
Marshall Islands 124
Martinique 143
Mauritius 95
Mexico 128
Midway Island 124
Monaco 71
Mongolia (Outer) 115
Morocco 95
Mozambique 96
Nepal 115
Netherlands Antilles 143
New Caledonia 124
New Guinea Austr. . 124
New Guinea Dutch . 124
New Zealand 124
Nicaragua 144
Niger 97
Nigeria 97
Norfolk Island 125
Norway 71
Pakistan 115
Panama 144
Paraguay 155
Peru 156
Philippines 116
Poland 73
Portugal 73
Puerto Rico 145
Reunion 98
Rhodesia 98
Rumania 74
Ryukyu Islands 118
Samoa 125
Sao Tomé 98
Sarawak 118
Saudi Arabia 104
Senegal 98
Seychelles 98
Sierra Leone 99
Singapore 118
Solomon Islands 125
Somaliland, British . 99
Somaliland, French . 99
Somaliland, Ital. 99
Spain 76
St. Pierre & Miquelon 131
Sudan 99
Sudan, French 99
Surinam 156
Sweden 80
Switzerland 83
Syria, United Arab. Rep. 104
Tahiti 125
Tanganyika 99
Taiwan 118
Tangier 96
Thailand 120
Trinidad BWI 145
Togo 99
Tunisia 99
Turkey 104
Uganda 101
Union of South Africa 101
United Nations 136
United States 131
Uruguay 157
U.S.S.R. 85
Vatican State 87
Venezuela 157
Vietnam, Republic .. 120
Vietnam Peopl. Democratic Rep. 121
Virgin Islands 146
Volcano Islands 121
Windwards Islands . 146
Yemen 105
Yugoslavia 87
Zanzibar 101

See last minute corrections informations last page.

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The Editor of the World Radio Handbook seeks information from all stations engaged in broadcasting and interested in international broadcasting and publishes the information as communicated to him by the stations. The Editor cannot be held responsible for the correctness of this information or for not publishing schedules and other particulars of stations which do not supply the information or for changes in the times and wavelengths of programmes made after the current edition has gone to press. **We ask you to pay attention to the last minute information and corrections; (see last page).**

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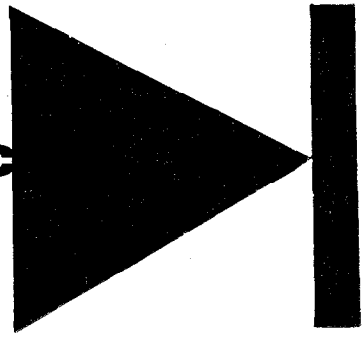

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PREFACE

The year 1959 promises to be one of great hope for the future of radio and television. It is the year of the Geneva Radio Conference which will surely become a milestone on the road to perfection in radio technical achievement. If, in the past, the number of radio and TV receivers has steadily grown, if—without being prophets—we can foresee an ever more rapid increase in the future in these fields, we must realize that for those concerned in radio and TV there is an equal increase in responsibility vis-a-vis the listener and the viewer.

The far-reaching media of radio, in particular, shows signs of a sickness which might be called "overcrowding of the wavebands and jamming." *Poor reception* on short, medium and long waves has, of course, led to rapid development of the frequency modulation network and, in this way, *one* of the problems, that of first quality transmission – particularly of music – has been solved.

Over and above this development, the far-reaching waves should not be forgotten. Widespread listener research in several countries has shown an increasing tuning-in to the local transmitter on a definitive and final basis. One no longer chooses a particular programme according to one's personal taste, because frequently only the local station or frequency modulation can be heard without interference.

Those who remember the early days of radio will recall the sensation created, for example, by the possibility of hearing foreign countries on short wave. This pioneering enthusiasm has given way to a steadily growing sense of resignation. The increasing number of radio transmitters and radio receivers must not blind us to the fact that the many deficiencies arising from one source or another – these sicknesses, in fact – are signs of a general decline in radio itself, its possibilities and its tasks.

For radio, above all, with its far-reaching waves, could and should serve mutual understanding. During the last world-war, many listeners tried to form their own picture of the world situation by listening to broadcasts from friend and enemy. In Germany, thousands of people did this, although "listening to the enemy" carried the death penalty. In times of peace, the desire to form one's own picture of the cultures and social conditions of other peoples and continents should be encouraged and not hindered.

Better understanding and better comprehension can only exist where there is mutual knowledge. Short-wave listening today can only frustrate and shock for *no information can be* gleaned amongst the confusion of jamming and propaganda. The ensuring of a free flow of objective and accurate information and the *broadcasting of material* of true cultural value – that is the mission of radio today, if we are to obtain a world ripe for peace.

And it is for this reason that for radio 1959 is the year of hope, in which a fairer and more orderly distribution of wavelenghts hand a cessation of jamming could bring about great progress in the field of broadcasting. In the World Radio Handbook radio transmitters from all parts of the world are ranged alphabetically side by side, peacefully indeed – but on the air and in actual practice this is far from being the case. This is not, of course, the fault of the World Radio Handbook. On the contrary. This book appeals to the radios of the world to work together in peace so that technical gifts in the hands of man may be brought, unspoilt and free from all traces of hatred and the noise of war, to the people of every land.

Walter Steigner
Director,
UNESCO Radio Division

Sound radio has already spread to the ends of the earth. Television is growing no less rapidly. To glance through the following pages is to receive ample testimony to these facts. Today, between many of the organisations so fully listed here, there are close ties established over many years. The discussion of common problems, the exchange of technical information, the mutual provision of facilities have become commonplace between them. We in British broadcasting have been fortunate enough to work alongside many of the services in this handbook. In that sense it might almost be a catalogue of old friends. The book has often been of value to us in the past, but perhaps it has never had more value than today when it underlines the world-wide importance of broadcasting and the responsibilities of those whose task it is to use broadcasting for the common good.

Sir Ian Jacob, KBE, CB.
President of the European Broadcasting Union
Director General,
The British Broadcasting Corporation

My sincerest thanks are due to the radio and television organizations, which, realising the purpose of the book, have kindly made available particulars of their organizations and supported my work in many valuable ways – to the many clubs and individuals that have assisted in making the contents of WRH complete – the many advertizers who, to mutual benefit, use WRH as a world advertizing medium – and the many sympathizers with the purpose of WRH. I trust that this manifold and world-wide cooperation may be continued and augmented in the new year for the pleasure and benefit of all those interested in a peaceful development and exploitation of radio and television. It is my belief that the purpose of WRH can only be fulfilled by permitting it to stand open to all, irrespective of political, religious or racial views.

O. Lund-Johansen.

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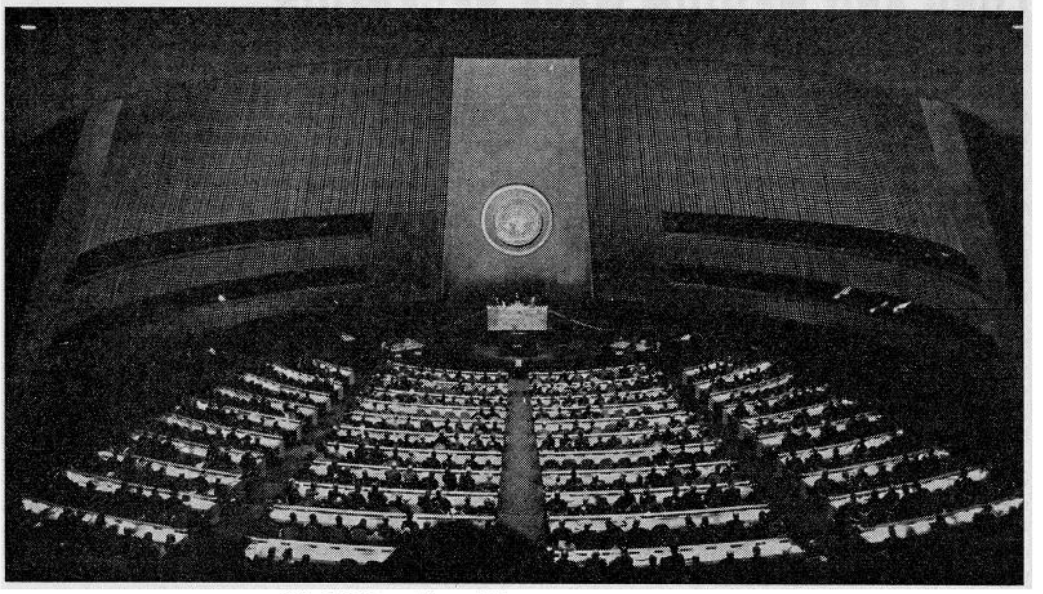


United Nations: The world forum of the General Assembly

WHEN THINGS GET "HOT" . . .

. . . They seem to gravitate naturally towards the United Nations. That is perhaps not surprising, since the world organization was created to keep international disputes and tensions from reaching the boiling point.

The crisis may be *located* in the Suez area, in Hungary, in Lebanon or Jordan, but it is almost invariably *reflected* in the meeting room of one of the principal organs of the United Nations.
And this is where radio takes a hand.

From the world forum of the General Assembly (see photograph) or the Security Council, the invisible lines of telecommunication radiate to far-distant continents, where men and women in individual homes and offices listen and hear their contemporary political history unfold.

During the 1958 Middle East crisis, United Nations Radio was able to broadcast meetings of the General Assembly and the Security Council to all six continents. In many countries, national and regional radio organizations picked up the signals and relayed them to their own local listeners.

In countries as widely separate as Ghana and Guatemala, Iraq and Indonesia, Canada and Czechoslovakia, listeners received up-to-the-minute – literally so – actuality on the major international preoccupation of the hour. – They received it *from source.*

In an age of spectacular scientific advance, this use of the well-established techniques of international broadcasting is not to be lightly discussed.

Many national broadcasting services co-operate in bringing about this chain of communication between event and listener.

The task of co-ordinating their schedules and facilities falls to United Nations Radio – and it is a task we consider an honor to perform.

PETER AYLEN
Director, Radio and Visual Services Division, United Nation

A statement:

The responsibility of the internatioal radio broadcaster to his audience has increased enormously with the quickening of communications and interdependence of peoples of the world today. In addition to presenting news and entertainment, he must contribute a worthwhile service toward the increased understanding of the aspirations and goals of his own people and his government. In order to render this service, he must understand the goals and aspirations of his audience.
When this mutual understanding is established, the broadcaster has made a vital contribution to international understanding and the eternal goal of all peoples – everlasting peace.

Henry Loomis, Director: Voice of America – US Information Agency

LONG AND MEDIUM WAVE RECEPTION

During the daytime reception on the long and medium wave broadcast bands is obtained almost entirely by means of a wave which travels over the surface of the earth. The wave travelling upwards is completely absorbed in the ionosphere. The radio energy emitted from the aerial of the transmitting station travels outwards (usually in all horizontal directions) as a "ground" wave, which on these wavelengths consists almost solely of the "surface" wave, i.e. that which proceeds with its foot in contact with the earth. The distance range of such a wave depends upon the loss of energy which it encounters as it travels along, and this occurs principally within the earth itself. The foot of the wave penetrates some 50 feet or so into the earth, where it sets up currents which absorb energy from the wave, the magnitude of the loss depending upon the conductivity and dielectric constant of the ground, and upon the wavelength (or frequency). The ground constants vary very much with the nature of the terrain, but it will be sufficient here to note that the losses are least when the wave travels over sea water and greatest when it travels over earth of a desert-like nature. In the Table are given the approximate maximum ranges at which good reception can be expected at a country site where there is little man-made noise, for different transmitter powers. For daytime reception these ranges are given separately for transmission over sea water and over land of a "good" type, i.e. where the earth constants are those midway between the worst and best values commonly encountered. It will be seen that the distance ranges are always greater over sea than over land. Of course reception of a kind may be obtained at greater ranges than those shown: on the other hand reception in noisy town areas is likely to be less than good at the extreme ranges shown.

Besides depending upon the ground constants the currents set up in the earth vary considerably according to wavelength, with the result that the losses are greater the shorter the wavelength (the higher the frequency). Thus, for a given transmitter power the distance range is considerably greater on the long broadcast wavelengths than on the medium waves, and in order to take account of this the ranges given in the Table are for one wavelength in the long-wave band and for two in the medium-wave band. Distance ranges for other wavelengths may be estimated from these values.

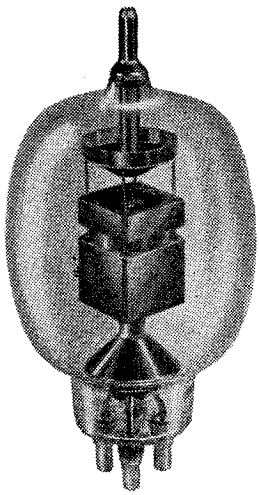
It should be mentioned, whilst dealing with the ground wave, that it is enabled to bend around the curvature of the earth's surface by the process known as "diffraction" and though this process permits of reception of the ground wave at a greater distance than if it were absent, yet at a distance beyond the "bulge" in the earth's surface the wave is not so strong as it would be if the earth were flat. In this region its energy decreases more rapidly with distance than before, and furthermore, the effect varies with wavelength, so that on the medium waves it happens at shorter distances than on the long waves.

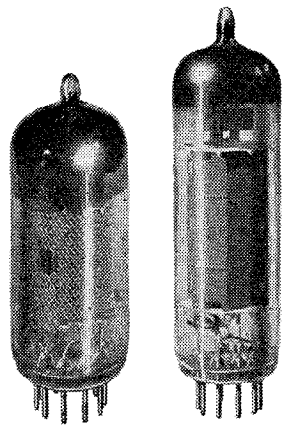
So much for daytime conditions. At night, as everyone knows, the distance range of long and medium wave stations is much enhanced. This is because the energy, which is radiated from the transmitting aerial in upward directions, and which during the daytime is all lost by absorption in the D layer of the ionosphere, is returned to the earth at night. After the sun's rays are removed from the atmosphere after dark the D layer disappears, the absorption of the upgoing radio energy largely ceases, and the waves are returned to the earth after reflection from an ionospheric layer higher up. The effect is not entirely advantageous, however, for it will easily be seen that this downcoming "sky-wave" will interfere with the ground wave and cause serious fading of the signals. Such fading will occur in a region where the strength of the ground wave is less than about three times that of the sky-wave. But, since the losses to which the sky-wave is subject are much less than for the ground wave, its strength decreases with distance much slower than does that of the ground wave. Thus, at short distances from the transmitter the groundwave will be by far the stronger and reception will be satisfactory: then there will be an area where the sky-wave is getting stronger in relation to the ground wave and fading will occur; finally, at a greater distance the sky-wave will be so much stronger than the ground wave that it alone will provide good reception. As can be seen from the Table the distance range for satisfactory reception by the sky-wave at night in most cases far exceeds that for the ground wave by day, due to the smaller losses for the sky-wave, though it should be added that this reception will be inferior to good ground wave reception, owing to the variability of the ionospheric path. It should also be mentioned, with regard to the fading area, that this is usually considerably reduced in extent by the use, at most broadcasting stations, of aerials which deliberately reduce the amount of upward-going energy and attempt to confine their emission, as far as possible, to directions over the ground.

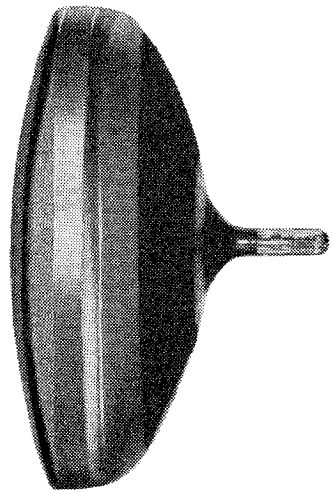
APPROXIMATE MAXIMUM DISTANCES FOR GOOD RECEPTION ON LONG AND MEDIUM WAVES

Power	LONG WAVES			MEDIUM WAVES					
	200 kc/s (1500 m)			600 kc/s (500 m)			1500 kc/s (200 m)		
	Day		Night	Day		Night	Day		Night
	Sea km	Land km	km	Sea km	Land km	km	Sea km	Land km	km
1 kW	220	150	*	210	105	*	190	42	*
10 kW	420	360	400	380	180	450	320	70	400
50 kW	580	510	900	520	240	930	420	94	850
100 kW	670	600	1100	590	270	1150	480	110	1050
500 kW	880	760	1500	720	350	1550	580	140	1400

* For Powers below 10 kW the sky-wave field is below the required level.

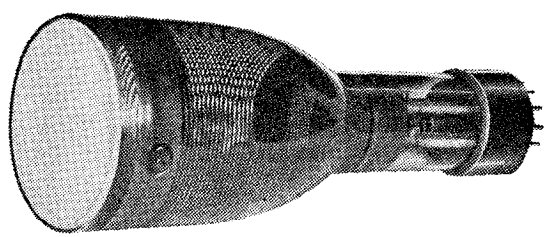


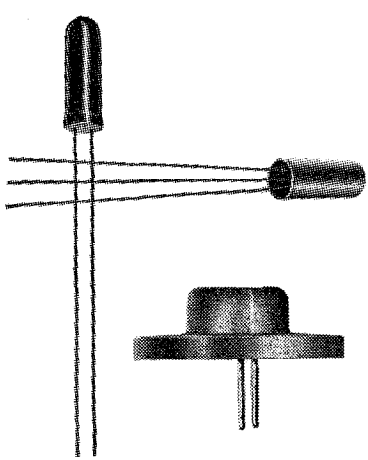




PHILIPS

electron tubes and semi-conductors





Philips manufacture a complete range of electron tubes, from the smallest battery-fed subminiatures to giant transmitting tubes for broadcasting and industry; from electrometer tubes handling extremely small currents to heavy duty ignitrons, from tiny phototubes to 300 kV X-ray tubes.

In the fast growing domain of solid state electronics Philips are contributing on an ever increasing scale to the progress and development of semi-conductors. A complete range of diodes and transistors for the whole field of applications is available.

T. W. Bennington *is an Engineer of the British Broadcasting Corporation. He has been engaged in short-wave radio since 1932, when he was in charge of the radiotelephone equipment and service in RMS "Majestic". Joining the BBC in 1934 he was at first a transmitter engineer, and then for 15 years in the Department concerned with short-wave planning. Now with the Corporation's Research Department he is concerned with long-distance short-wave propagation, and with the application of ionospheric data to long-distance transmission. He is the author of numerous articles on this subject, and of the book "Short Wave Radio and the Ionosphere", published by Iliffe and Sons, Ltd., of London.*

SHORTWAVE RADIO CONDITIONS DURING 1959

T. W. Bennington, Research Dept., BBC, England.

Most users of *World Radio Handbook* will no doubt know that shortwave reception is obtained by means of a radio wave that travels from transmitter to receiver by successive reflections at the ionosphere and at the ground, and that, because the ionosphere is produced by the sun, it is subject to variations occasioned by the varying action of the sun upon it. Thus it varies with time of day and with the seasons, and the conditions for shortwave transmission change in a like manner. The effect of this is that the wavelengths which give best reception are constantly changing, and it is necessary to suit the wavelength to the ionospheric conditions prevailing over any geographical transmission path at any time of day or season.

Superimposed upon the diurnal and seasonal variations is a variation which is due to the sunspot cycle, and which takes about eleven years to go through all its changes. So conditions are not the same at a given time of day and month, in different years. In making an estimate of what conditions will be like during 1959 all these variations must be taken into account, and it is the sunspot cycle variation which is the most difficult to predict. In fact it is not possible to forecast the sunspot activity for very far ahead with good accuracy. We can, however, make an estimate of what conditions may be like during 1959, based on the known behaviour of past sunspot cycles.

The present sunspot cycle is now at a period of maximum activity, and this maximum is, in fact, the highest ever recorded in the continuous records which start in 1749. It does seem, however, though we cannot be quite certain at the time of writing, that the epoch of maximum activity is already past, and that the average sunspot activity has started to decline. It will probably continue to do this for about eight years before sunspot minimum is reached, so that the decrease in the average activity is likely to be slow. The result is that throughout 1959 one would expect the activity to be exceptionally high but slowly declining.

If this be so the smoothed sunspot number (which is the most reliable criterion of the activity) is likely to remain well above 100 throughout 1959, and, in these circumstances, the conditions for shortwave transmission will be such that the highest frequencies (shortest wavebands) will remain usable, having regard to the time of day, season of year and geographical positions of transmitter and receiver. In fact, we should expect the best wavebands to remain very much as they have been of late, with a possible small shift towards longer wavelengths at the end of the year.

It is not possible, in this short article, to indicate the best usable frequencies for 1959 for different times of day and seasons for a large number of circuits, but a few general remarks can be given, reference being made to the Table. In this are given, for three directions from Europe or vice versa, the *shortest broadcast wavebands* for good reception during different months and times of day. The shortest waveband usable over a given distance usually gives the best reception, though good reception is possible on the next longer wavebands, but it deteriorates if the waveband is *too* long. For short *distances* in the same directions somewhat longer wavebands are the *best*, but, generally speaking, provided the distance is greater than 4000 kilometres, the wavebands shown in the Table should be usable.

During the centre part of the day for the circuits shown the 11 metre band should be usable throughout the year, except over the North American circuit, where the 13 metre band should be best during all but the winter months. The 13 metre and 16 metre bands will be good alternatives. During the other hours of day longer wavebands will be most suitable, as shown in the Table, and here again, for the North American circuit, longer wavelengths than for the other two circuits are most suitable. In every case the next longer waveband to that shown should provide the best alternative. During the times not shown the best waveband should be one of those between those given for the nearest times, except during the early morning, when it is likely to be the next *longer* waveband to those given for the night period. It is possible, of course, that unforeseen variations in sunspot activity may cause some variations in the wavebands shown.

Continues page 13

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16–2000 meters.
Battery operated.
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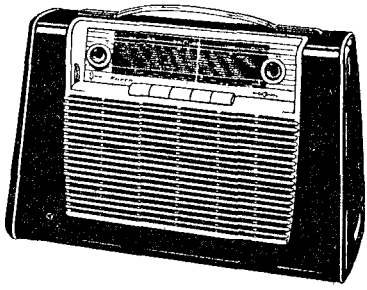

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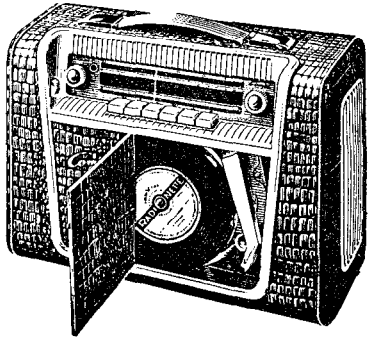

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RADIO NORWAY

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Ev.: (Transmission times – please see NORWAY)

SHORTWAVE

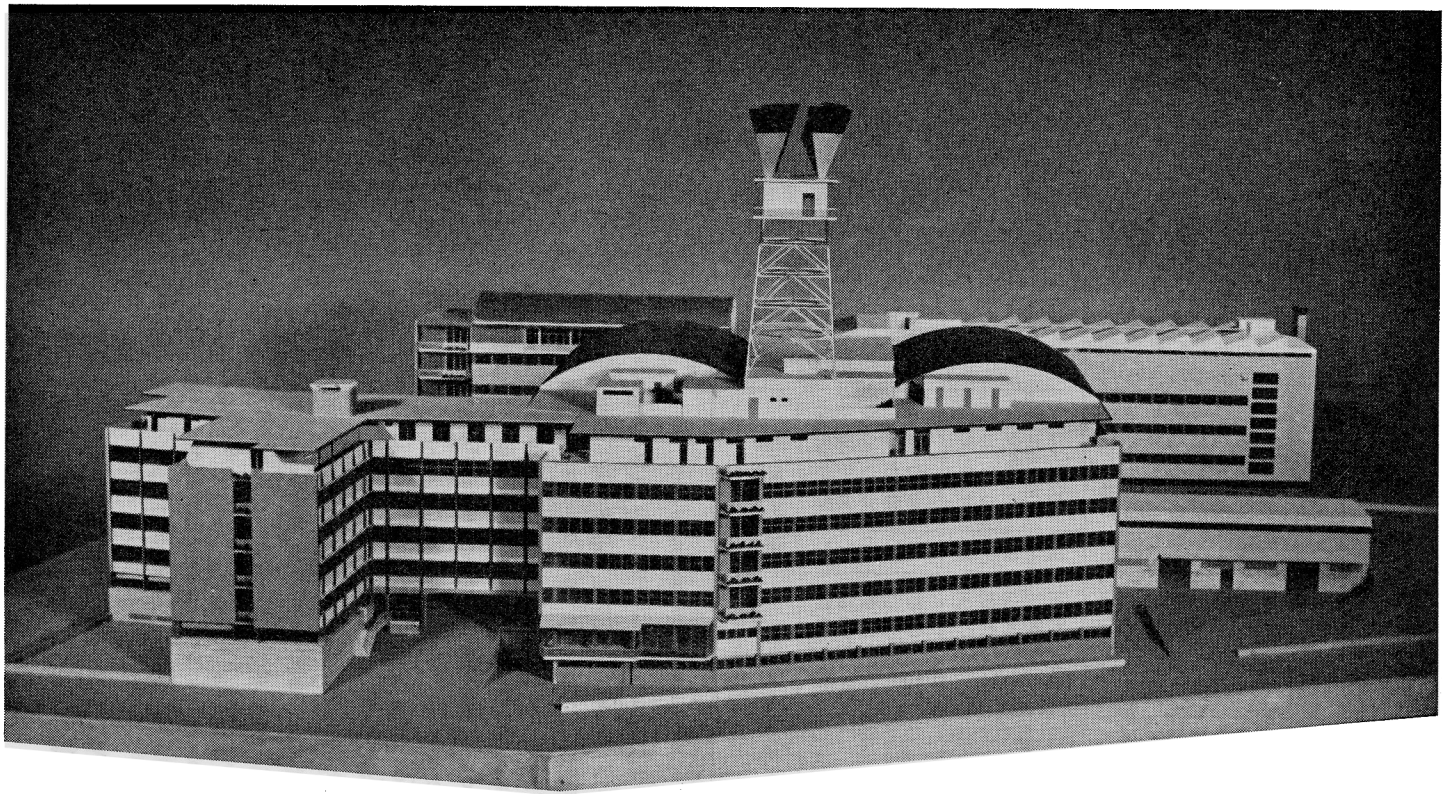
Continued from page 10

Finally, as most listeners know, there will no doubt be some periods of ionospheric disturbance during the year. At these times, streams of particles are shot out from huge eruptions which occur on the sun, and, reaching the ionosphere a day or two later, give rise to a turbulence and to a general upheaval in its electronic structure, as well as to displays of the polar aurorae and to disturbances in the earth's magnetic field. Shortwave reception is then temporarily impaired, and, though it cannot be restored to normal by any action on the part of the listener, he may, at such times, be able to obtain the best reception possible on a somewhat longer waveband than that which he uses at normal times.

Circuit	Months	Period GMT	m.b.	Period GMT	m.b.	Period GMT	m.b.
Eu./ N.Am. (and vice versa)	Ja/Feb	00.00–06.00	25	12.00–19.00	11	21.00–23.00	19
	Ma/Ap	00.00–06.00	25	12.00–21.00	13	21.00–24.00	16
	Ma/Au	00.00–06.00	19	10.00–16.00	13	16.00–23.00	13
	Se/Oct	00.00–06.00	25	12.00–21.00	13	21.00–24.00	19
	No/De	00.00–06.00	31	12.00–19.00	11	21.00–23.00	25
Eu./ S. Am (and vice versa)	Ja/Feb	00.00–06.00	19	10.00–18.00	11	20.00–23.00	16
	Ma/Ap	00.00–06.00	16	10.00–20.00	11	20.00–23.00	13
	Ma/Au	00.00–06.00	16	12.00–22.00	11	22.00–24.00	13
	Se/Oct	00.00–06.00	19	10.00–20.00	11	20.00–23.00	16
	No/De	00.00–06.00	25	10.00–18.00	11	20.00–23.00	19
Eu./ S. Af. (and vice versa)	Ja/Feb	00.00–04.00	19	08.00–17.00	11	20.00–24.00	19
	Ma/Ap	00.00–04.00	16	07.00–19.00	11	19.00–24.00	13
	Ma/Au	00.00–04.00	19	07.00–19.00	11	19.00–24.00	13
	Se/Oct	00.00–04.00	19	07.00–19.00	11	19.00–24.00	16
	No/De	00.00–04.00	25	08.00–17.00	11	20.00–24.00	25

KEEP YOUR WORLD RADIO HANDBOOK UP TO DATE by help of the WORLD RADIO BULLETIN which contains the latest news from broadcasting stations: New stations, changes of frequencies, hours of transmission, powers etc. The WR-bulletin is published fortnightly and the rates are:
Airmal: Annually: Da. kr. 38.–, £ 2, $ 5.65, DM 24.–. Quarterly: Da. kr. 10.–, £ 0/11/0, $ 1.50, DM 6.50.
Ordinary mail: Annually: Da. kr. 22.–, £ 1/6/0, $ 3.50, DM 15.–. Quarterly: Da. kr. 6–., £ 0/7/0, $ 1.25, DM 4.25

RAI - RADIOTELEVISIONE ITALIANA



A general view of RAI-RADIOTELEVISIONE ITALIANA television studios that started operations in 1957 in Rome.

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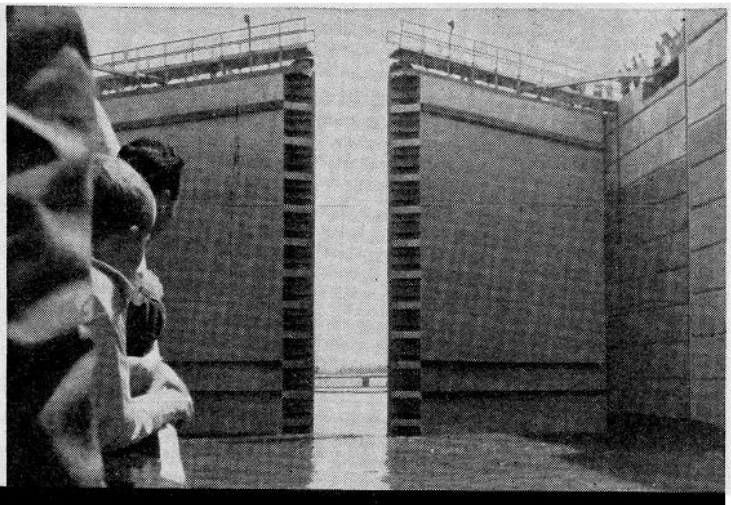
One of the locks on the Seaway ▶



Canadian Broadcasting Corporation

International Service

P. O. BOX 6,000 , MONTREAL , CANADA *For broadcast frequencies and times, see CANADA.*

BROADCASTING ORGANIZATIONS

UNION EUROPEENNE DE RADIODIFFUSION (U.E.R.)

Seat and Administrative Office: 1, rue de Varembé, GENEVE.

Technical Centre: 4, rue de la Vallée, BRUXELLES.

Monitoring Centre: Jurbise (Belgium).

International Coordination Centre for TV/Programmes exchanges (Eurovision): Palais de Justice, Bruxelles.

Administrative Council (1957-1958): President: Sir. Ian Jacob, Director General, The British Broadcasting Corporation.

Vice-Presidents: MM. Léon Daumard, Inspector General "Radiodiffusion-Télévision Française".

Administrators: Representatives of the broadcasting organizations in: Austria, Denmark, Finland, France, Germany (Fed. Rep.), Italy, Netherlands, Switzerland and United Kingdom.

Director of the Administrative Office and Secretary General: M. Ch. Gilliéron.

Director of the Technical Centre: M. Georges Hansen.

Active Members: The broadcasting organizations of: Austria, Belgium, Denmark, Egypt (1958), Finland, France, Germany (Bundesrepublik), Greece, Iceland, Israel, Ireland, Italy, Lebanon, Luxembourg, Monaco, Morocco, Tunisia, Norway, Netherlands, Portugal, Spain, Sweden, Switzerland, Syria (1958), Turkey, United Kingdom (British Broadcasting Corporation), Vatican City, Yugoslavia.

Associate Members: The broadcasting organizations of: Australia (ABC), Belgian Congo, Burma, Canada (CBC), Ceylon, Haiti, Japan, New Zealand, Pakistan, Portugal (RTP-Radiotelevisao Portuguesa), Union of South Africa, United Kingdom (I. T. A. and Independent Television Companies Association Ltd.), United States (US Information Agency, N.A.E.B., C.B.S. and N.B.C.).

Publications: E.B.U. Review – every two months in English and French, published in two separate parts: A (Technical) and B (General and Legal). – Long and Medium waves reports (European Area). – Short waves reports.

INTERNATIONAL BROADCASTING ORGANISATION OIR

ADDR.: 15, Liebknechtova, Prague 16, Czechoslovakia. – **Cable:** Interadif, Praha.

Nature: International organization dealing with practical and certain theoretical questions connected with broadcasting and television programmes and technique and co-operation between broadcasting and television organizations.

Governing Body: General Assembly consisting of one representative for each full member.

ADMINISTRATIVE COUNCIL: Consisting of 7 to 13 members.
Chairman for 1958: Representative of Bulgaria.
Vice-Chairmen for 1958: Representatives of Korean PDR and Hungary.

Members: Peoples Republic of Bulgaria, Peoples Republic of China, Czechoslovak Republic, Finland, German Democratic Republic, Soviet Socialist Republic of Lithuania, Peoples Republic of Mongolia, USSR.

MEMBERS: PR of Albania, Byelorussian SSR, PR of Bulgaria, Chinese PR, Czechoslovak Republic, Egyptian Broadcasting of the United Arabic Republic, Estonian SSR, Finland, German Democratic Republic, Hungarian PR, Korean People's Democratic Republic, Latvian SSR, Lithuanian SSR, Moldavian SSR, PR of Mongolia, PR of Poland, Rumanian PR, Ukrainian PR, Union of Soviet Socialist Republics, PDR of Vietnam.

Facilities: Technical Centre: Prague, Czechoslovakia.

Publications: Documentation and Information Bulletin in Chinese, English, French and Russian issued every two months. Technical Documentation and Lists of broadcasting and television stations in operation. Bimonthly OIR Information and quarterly Catalogues: a) radio programmes, b) television programmes – suitable for exchange.

Meetings: General Assembly at least once a year. Administrative Council at least once a year.

Relations with other international organizations: Official relations with the ITU, UNESCO, the Economical and Social Council of the United Nations Organization and others.

Continued page 16.

The friendly voice of the Southern Continent

RADIO AUSTRALIA

invites shortwave listeners to tune to its daily programmes in English, French, Indonesian, Mandarin and Thai. Transmissions are directed to Asia, the British Isles and Europe, Canada and the United States of America, Africa, New Zealand and Pacific Islands.

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BROADCASTING ORGANIZATIONS:

(Continued from page 15)

UNESCO
(United Nations Educational, Scientific and Cultural Organization)
Radio Division, Department of Mass Communication.
Address: 19, avenue Kléber, Paris 16e. Telephone: KLEber 52-00.
Chief of Radio Division: Walter Steigner
Deputy-Chief: José Garza y de Garate.
Chief of English production: Rex Keating
Chief of French production: Fernand Pouey
Chief of Spanish production: José Garza de Garate
Chief of German production: Walter Steigner.

ASOCIACION INTERAMERICANA DE RADIODIFUSION (AIR): AIR is an association of the broadcasting corporations of the American countries. Founded in 1946 it represents more than 4000 broadcasting and 400 television stations. Its purpose is to preserve free and stable broadcasting, promote cooperation between broadcasting corporations and the public authorities, to raise the cultural level of the peoples, and to work for a closer feeling of association between the broadcasting corporations of America. AIR is recognized by the United Nations and collaborates with UNESCO, with the International Union of Telecommunications, with the organizations of the American States. AIR has subscribed to the "Panama Doctrine" in which the American Radio and Press declare themselves united against any attack on individual liberty and any restriction of the freedom of utterance. During its last General Meeting in March of 1958 held at Punta del Este, Uruguay, a declaration of democratic faith and of permanent action in defense of democracy and its principles was approved, and was proclaimed on October 4th of the same year on occasion of the celebration of Continental Radio Day and of the Twelfth Anniversary of IAAB's foundation. During the current year the institution has had intensive activity in defense of freedom of information in connection with events occurring in several countries. The Association of Argentine's Private Broadcasters, recently formed on occasion of the return of Argentine's radiobroadcasting to the system of private enterprise, in which AIR had an outstanding influence, was recently incorporated to AIR. AIR's President is the Uruguayan Broadcaster Sr. Raúl Fontaina, and the Director General, Sr. Julio Menadier Carrasco of Chile. The address of the President is Mercedes # 973, Montevideo, Uruguay, and that of the Central Office, Casilla 10476, Santiago de Chile. Cables address: AIR. Santiago, Chile.

CATHOLIC BROADCASTING ORGANIZATIONS

ASSOCIATION CATHOLIQUE INTERNATIONALE POUR LA RADIODIFFUSION ET LA TELEVISION
General Secretariat: Avenue de la Gare 6, Fribourg-Switzerland.
General Secretary: Dr. J. Schneuwly.
Administrative Council consists of 12 members. President : Mag. Dr. J. B. Kors, OP, Hilversum/Holland. – **Committees:** a) TV-programmes. b) Radio-TV and the child. c) Publications.
Associate Members: Union of So. Africa, Algeria, Germany, Argentina, Austria, Belgium, Bolivia, Brazil, Canada, Costa Rica, Vatican State, Colombia, Cuba, Curaçao, Denmark, Egypt, Spain, Haiti, Indonesia, Iraq, Ireland, Italy, Morocco, Norway, Portugal, Puerto Rico, Peru, El Salvador, Luxembourg, Sweden, Switzerland, Trinidad, Venezuela, Australia, Ceylon, Belgian Congo, San Domingo, Monaco, Panama, Ecuador, Japan, Philippines, Paraguay, Tunisia, Uruguay, Chile.
Correspondent Members: French West Africa, Mexico, USA, Nicaragua, Panama (Canal Zone), Honduras.
Publications: Quarterly bulletin "UNDA", printed in French, stencilled in English and Spanish. – "UNDA-NOUVELLES", monthly, stencilled. The first "Catalogue of records of Religious Music", containing a list of more than 2000 records, was published in 1956. – **Code des Edicateurs à l'usage de la TV** in French, German, Spanish, English, Portuguese: **Commentaire du Code des Educateurs pour la TV.**
General Assembly: Every two years: Last General Assembly: 1st, 2nd and 3rd of October in Geneva. – Congress: every 2–4 years; last congress in Vienna in 1955. Next Congress in Central America in 1960. Branch: For Latin America: Addr.: Palacio São Joaquin, 105 rua da Gloria, Rio de Janeiro.

Continued page 42

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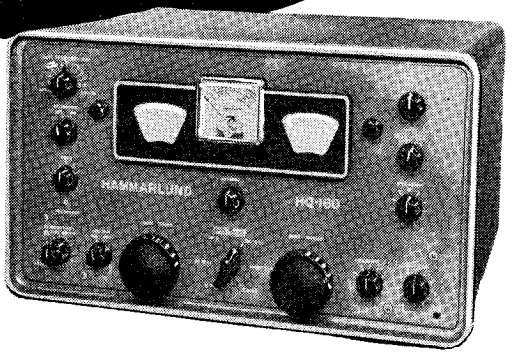

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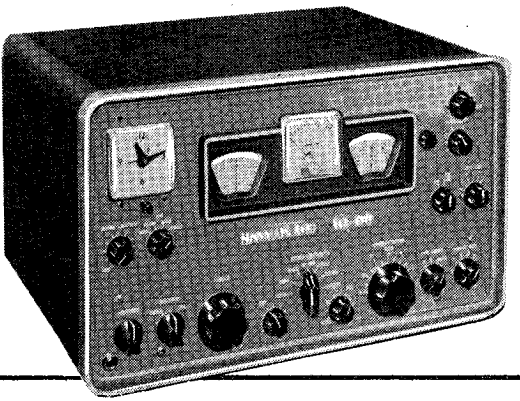

Established 1910

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Hammarlund Manufacturing Company, Inc.

International Division: 13 East 40th Street, New York 16, N. Y.

WORLD TIME IN ALL COUNTRIES

DIFFERENCE BETWEEN LOCAL TIME AND GREENWICH MEAN TIME

The differences marked + indicate the number of hours ahead of G. M. T. Differences marked ÷ indicate number of hours behind G. M. T.

	Normal clock Time	Summer Time
Aden	+3	+3
Afghanistan	+4½	+4½
Alaska[1]	÷8	÷8
Albania	+1	+1
Algeria	+1	+1
Andorra	+1	+1
Angola	+1	+1
Argentina	÷3	÷3
Australia		
a) Victoria, New South Wales, Queensland. Tasmania, (Brisbane, Melbourne. Sydney)	+10	+10
b) N. Territory		
S. Australia	+9½	+9½
c) W. Australia	+8	+8
Austria	+1	+1
Azores	÷2	÷1 1/4-1/10
Bahamas	÷5	÷5
Bahrain	+4	+4
Barbados (W.I.)	÷4	÷4
Bechuanaland	+2	+2
Belgian Congo		
Leopoldville	+1	+1
Elisabethville	+2	+2
Stanleyville	+2	+2
Belgium	+1	+1
Bermuda	÷4	÷4
Bolivia	÷4	÷4
Borneo, British North	+8	+8
Brazil		
a) Eastern and Coastal.	÷3	÷2
(Manaos)	÷4	÷3
Brunei, No Borneo	+8	+8
Bulgaria	+2	+2
Burma	+6½	+6½
Cambodia	+7	+7
Cameroon, Fr.	+1	+1
Canada		25/4-25/9
a) New Foundland	÷3½	÷2½
b) Atlantic (Labrador, Nova Scotia, Quebec)*	÷4	÷3
c) Eastern (Ontario)	÷5	÷4
d) Central (Manitoba)	÷6	÷5
e) Mountain (Alberta)	÷7	÷6
f) Pacific (Br. Columbia)	÷8	÷7
g) Yukon	÷9	÷8
Canary Islands	GMT	GMT
Canton Islands	÷11	÷11
Cap Verde Isl.	÷2	÷2
Ceylon	+5½	+5½
Chile	÷4	÷4
China	+8	+8
Colombia	÷5	÷5
Comoro Isl.	+3	+3
Cook Isl.	÷10½	÷10½

	Normal clock Time	Summer Time
Costa Rica	÷6	÷6
Cuba (W.I.)	÷5	÷5
Curacao	÷4½	÷4½
Cyprus	+2	+2
Czechoslovakia	+1	+1
Dahomey	+1	+1
Denmark	+1	+1
Dominican R.	÷5	÷5
Ecuador	÷5	÷5
Egypt	+2	+2
Ellice Island	+12	+12
El Salvador	÷6	÷6
Eritrea	+3	+3
Ethiopia	+3	+3
Falkland Islands	÷4	÷4
Fiji Islands	+12	+12
Finland	+2	+2
France	+1	+1
F Eq. Africa	+1	+1
French West Africa (Senegal)	GMT	GMT
Gambia	GMT	GMT
Germany	+1	+1
Gibraltar	+1	+1
Gilbert Isl.	+12	+12
Goa (Port India)	+5½	+5½
Ghana	GMT	GMT
Great Britain	GMT	+1 **) 1/4-1/10
Greece	+2	+2
Greenland		
Thule area	÷4	÷4
Angmagsalik W. Coast exc. Thule	÷3	÷3
Guadeloupe	÷4	÷4
Guam	+10	+10
Guatemala	÷6	÷6
Guiana (British)	÷3¾	÷3¾
Guiana (Dutch)	÷3.40	÷3.40
Guiana (French)	÷4	÷4
Guinea (French)	GMT	GMT
Guinea (Port.)	÷1	÷1
Guinea (Sp.)	+1	+1
Haiti (W.I.)	÷5	÷5
Hawaiian Isl.	÷10	÷10
Holland	+1	+1
Honduras (Rep.)	÷6	÷5½
Honduras (Brit.)	÷6	÷6
Hong Kong	+8	+9 1/4-31/10
Hungary	+1	+1
Iceland	÷1	GMT 3/4-31/10
India	+5½	+5½
Indonesia		
a) North Sumatra	+6½	+6½
b) South –	+7	+7
c) Java, Borneo, Bali	+7½	+7½
d) Celebes	+8	+8
e) Molucca Isl.	+8	+8
Iran (Persia)	+3½	+3½
Iraq	+3	+3
Ireland (Eire)	GMT	+1 15/4-15/10
Israel	+2	+3 1/6-15/9
Italy	+1	+1

	Normal clock Time	Summer Time
Ivory Coast	GMT	GMT
Jamaica (W.I.)	÷5	÷5
Japan	+9	+9
Johnston Isl.	÷11	÷11
Jordan	+2	+2
Kenya	+3	+3 4/5-7/9
Korea, Rep.	+8½	+9½
Korea, P. D. Rep.	+9	+9
Kuwait	+3	+3
Laos	+7	+7
Lebanon	+2	+2
Leeward Isl.	÷4	÷4
Liberia	÷¾	÷¾
Libya	+1	+2
Luxembourg	+1	+1
Macau	+8	+9 1/5-1/10
Madagascar	+3	+3
Madeira	÷1	GMT 1/4-1/10
Malaya	+7½	+7½
Malta	+1	+1
Marshall Isl.	+12	+12
Martinique	÷4	÷4
Mauretania	GMT	GMT
Mauritius	+4	+4
Mexico[2]	÷6	÷6
Midway	÷11	÷11
Monaco	+1	+1
Mongolia(Outer)	+8	+8
Morocco	GMT	GMT
(R. Dersa)	+1	+1
Mozambique	+2	+2
Nepal	+5.40	+5.40
Neth. Antilles	÷4½	÷4½
New Caledonia	+11	+11
New Guinea (Dutch)	+9½	+9½
New Guinea (Australian)	+10	+10
New Hebrides	+11	+11
New Zealand	+12	+12
Nicaragua	÷6	÷6
Niger	+1	+1
Nigeria	+1	+1
Norfolk Isl.	+11½	+11½
Norway	+1	+1
Pakistan		
a) West	+5	+5
b) East	+6	+6
Panama	÷5	÷5
Paraguay	÷4	÷4
Peru	÷5	÷5
Philippine Isl.	+8	+8
Poland	+1	+2
Portugal	GMT	+1 1/4-1/10
PuertoRico(W.I.)	÷4	÷4
Reunion	+4	+4
Rhodesia, (No.+So.)	+2	+2
Rumania	+2	+2
Ryukyu Isl.	+9	+9

	Normal clock Time	Summer Time
Samoa Isl.	÷11	÷11
S. Pierre	÷4	÷3 1/4-15/10
S. Tomé	GMT	+1
Sarawak	+8	+8
Saudi Arabia	+3	+3
Senegal	GMT	GMT
Seychelles Isl.	+4	+4
Sierra Leone	GMT	GMT
Singapore	+7½	+7½
Solomon Isl.	+11	+11
Somaliland	+3	+3
Spain	+1	+1
Sudan	+2	+2
Sudan (French)	GMT	GMT
Surinam	÷3.40	÷3.40
Sweden	+1	+1
Switzerland	+1	+1
Syria	+2	+2
Taiwan	+8	+9 1/4-30/9
Tanganyika	+3	+3
Tangier	GMT	GMT
Tahiti	÷10	÷10
Tasmania	+10	+10
Thailand	+7	+7
Tibet	+6	+6
Togo	GMT	GMT
Trinidad (B.W.I.)	÷4	÷4
Tunesia	+1	+1
Turkey	+2	+2
Uganda	+3	+3
Union of So. Af.	+2	+2
Uruguay	÷3	÷3
U.S.S.R.		
Moscow, Leningrad	+3	+3
Baku	+4	+4
Sverdlovsk	+5	+5
Tashkent	+6	+6
Alma Ata	+6	+6
Novosibirsk	+7	+7
Irkutsk	+8	+8
Yakutsk	+9	+9
Khabarovsk	+10	+10
Petropavlovsk	+11	+11
U.S.A.		
a) Eastern Zone	÷5	÷4 1/5-1/10
b) Central Zone	÷6	÷5 1/5-1/10
c) Mountain Zone	÷7	÷6 1/5-1/10
d) Pacific Zone	÷8	÷7 1/5-1/10
Vatican	+1	+1
Venezuela	÷4½	÷4½
Vietnam	+7	+7
Virgin Isl.	÷4	÷4
Windward Isl.	÷4	÷4
Yemen	+3	+3
Yugoslavia	+1	+1
Zanzibar	+3	+3

* exc. the watch shore and Gaspé regions: 5 h. behind GMT.

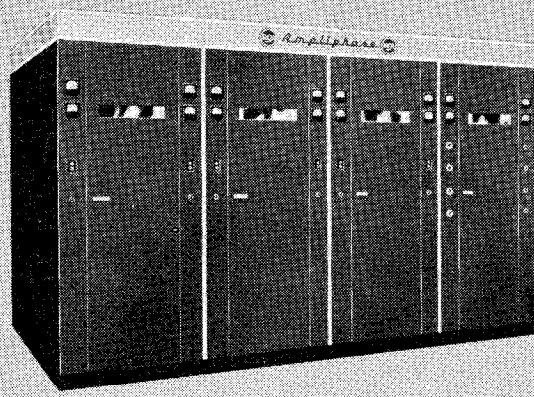
** Summer Time in Britain starts at 02 hours GMT after the 3rd Sat. in Apr. (or 2nd Sat. if 3rd is Easter weekend) and runs until 02 h. GMT after the first Sat. in Oct.

1) a) Ketchikan to Skagway ÷8
b) Skagway to 141°W. long ÷9
c) 141°W. long to 162°W. long ÷10
d) 162°W. long to Westernmost point (incl. Aleutians) ÷11

2) Generally ÷6
Lower Cal., Pa. coast ÷7
Lower Cal. No. part ÷8

World-Famous for Proven Reliability and Performance

RCA SHORT-WAVE and MEDIUM-WAVE TRANSMITTERS



BTA-50G, the new RCA 50 KW AM "Ampliphase" transmitter, represents the most significant step since RCA introduced high-level modulation. It occupies half the floor space required by other 50 KW transmitters, cuts installation and operating costs, eliminates need for underfloor trenches, costly water cooling systems or external blowers. All components are easily accessible and can be quickly replaced.

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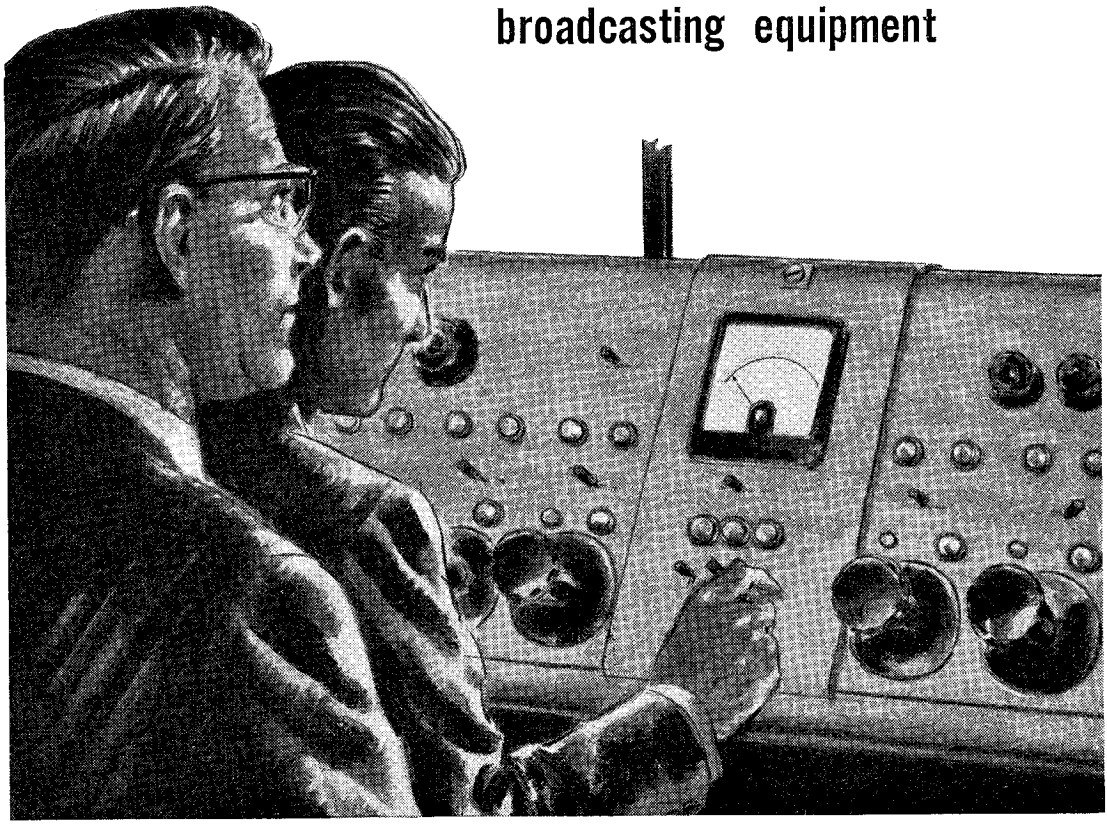

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MARCONI'S WIRELESS TELEGRAPH COMPANY LIMITED, CHELMSFORD, ESSEX, ENGLAND

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DENMARK

the country where HELLESENS are produced –
the best batteries for perfect radio-reception.

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TABLE OF ALLOCATION OF CALL SIGNS

The first character or the first two characters of a call sign indicates the nationality of the station using it.

AAA–ALZ	U.S.A.
AMA–AOZ[1])	Spain
APA–ASZ	Pakistan
ATA–AWZ	India
AXA–AXZ	Australia
AYA–AZZ	Argentina
BAA–BZZ	China
CAA–CEZ	Chile
CFA–CKZ	Canada
CLA–CMZ	Cuba
CNA–CNZ	Morocco (French)
COA–COZ	Cuba
CPA–CPZ	Bolivia
CQA–CRZ	Portuguese Colonies
CSA–CUZ	Portugal
CVA–CXZ	Uruguay
CYA–CZZ	Canada
DAA–DMZ	Germany
DNA–DQZ	Belgian Congo
DRA–DTZ	Bielorussian S.S.R.
DUA–DZZ	Philippines
EAA–EHZ	Spain
EIA–EJZ	Ireland
EKA–EKZ	U.S.S.R.
ELA–ELZ	Liberia
EMA–EOZ	U.S.S.R.
EPA–EQZ	Iran
ERA–ERZ	U.S.S.R.
ESA–ESZ	Estonia
ETA–ETZ	Ethiopia
EUA–EZZ	U.S.S.R.
FAA–FZZ	France and Colonies
GAA–GZZ	United Kingdom
HAA–HAZ	Hungary
HBA–HBZ	Switzerland
HCA–HDZ	Ecuador
HEA–HEZ	Switzerland
HFA–HFZ	Poland
HGA–HGZ	Hungary
HHA–HHZ	Haiti
HIA–HIZ	Dominican Rep.
HJA–HKZ	Colombia
HLA–HMZ	Korea
HNA–HNZ	Iraq
HOA–HPZ	Panama
HQA–HRZ	Honduras
HSA–HSZ	Thailand
HTA–HTZ	Nicaragua
HUA–HUZ	El Salvador
HVA–HVZ	Vatican City State
HWA–HYZ	France and Colonies
HZA–HZZ	Saudi Arabia
IAA–IZZ	Italy and Colonies
JAA–JSZ	Japan
JTA–JVZ	Mongol. People's R.
JWA–JXZ	Norway
JYA–JYZ[1])	Jordan
JZA–JZZ[1])	Netherl. N. Guinea
KAA–KZZ	U.S.A.
LAA–LNZ	Norway
LOA–LWZ	Argentina
LXA–LXZ	Luxembourg
LYA–LYZ	Lithuania
LZA–LZZ	Bulgaria
MAA–MZZ	United Kingdom
NAA–NZZ	U.S.A.
OAA–OCZ	Peru
ODA–ODZ	Lebanon
OEA–OEZ	Austria
OFA–OJZ	Finland
OKA–OMZ	Czechoslovakia
ONA–OTZ	Belgium and Colonies
OUA–OZZ	Denmark
PAA–PIZ	Netherlands
PJA–PJZ	Netherlands Antilles
PKA–POZ	Indonesia
PPA–PYZ	Brazil
PZA–PZZ	Surinam
QAA–QZZ	(Service abbreviat.)
RAA–RZZ	U.S.S.R.
SAA–SMZ	Sweden
SNA–SRZ	Poland
SSA–SSM	Egypt
SSN–STZ[1])	Sudan
SUA–SUZ	Egypt
SVA–SZZ	Greece
TAA–TCZ	Turkey
TDA–TDZ	Guatemala
TEA–TEZ	Costa Rica
TFA–TFZ	Iceland
TGA–TGZ	Guatemala
THA–THZ	France and Colonies
TIA–TIZ	Costa Rica
TJA–TRZ	France and Colonies
TSA–TSM	Tunisia
TSN–TZZ	France and Colonies
UAA–UQZ	U.S.S.R.
URA–UTZ	Ukrainian U.S.S.R.
UUA–UZZ	U.S.S.R.
VAA–VGZ	Canada
VHA–VNZ	Australia
VOA–VOZ	Canada
VPA–VSZ	British Colonies
VTA–VWZ	India
VXA–VYZ	Canada
VZA–VZZ	Australia
WAA–WZZ	U.S.A.
XAA–XIZ	Mexico
XJA–XOZ	Canada
XPA–XPZ	Denmark
XQA–XRZ	Chile
XSA–XSZ	China
XTA–XTZ	France and Colonies
XUA–XUZ[1])	Cambodia
XVA–XVZ[1])	Vietnam
XWA–XWZ[1])	Laos
XXA–XXZ	Portuguese Colonies
XYA–XZZ	Burma
YAA–YAZ	Afghanistan
YBA–YHZ	Indonesia
YIA–YIZ	Iraq
YJA–YJZ	New Hebrides
YKA–YKZ	Syrian Republic
YLA–YLZ	Latvia
YMA–YMZ	Turkey
YNA–YNZ	Nicaragua
YOA–YRZ	Roumania
YSA–YSZ	El Salvador
YTA–YUZ	Yugoslavia
YVA–YYZ	Venezuela
YZA–YZZ	Yugoslavia
ZAA–ZAZ	Albania
ZBA–ZJZ	British Colonies
ZKA–ZMZ	New Zealand
ZNA–ZOZ	British Colonies
ZPA–ZPZ	Paraguay
ZQA–ZQZ	British Colonies
ZRA–ZUZ	Union of S. Africa
ZVA–ZZZ	Brazil
2AA–2ZZ	United Kingdom
3AA–3AZ	Monaco
3BA–3FZ	Canada
3GA–3GZ	Chile
3HA–3UZ	China
3VA–3VZ	Tunisia
3WA–3WZ[1])	Vietnam
3YA–3YZ	Norway
3ZA–3ZZ	Poland
4AA–4CZ	Mexico
4DA–4IZ	Philippines
4JA–4LZ	U.S.S.R.
4MA–4MZ	Venezuela
4NA–4OZ	Yugoslavia
4PA–4SZ	Ceylon
4TA–4TZ	Peru
4UA–4UZ	United Nations
4VA–4VZ	Haiti
4WA–4WZ	Yemen
4XA–4XZ[1])	Israel
4YA–4YZ[1])	Intern. Civil Aviation Organization
5AA–5AZ	Libya
5CA–5CZ[1])	Morocco (French)
9KA–9KZ[1])	Kuwait
5LA–5LZ[1])	Liberia
5MA–5MZ[1])	Liberia
5PA–5QZ[1])	Denmark
9AA–9AZ[1])	San-Marino
9NA–9NZ[1])	Nepal
9SA–9SZ[1])	Saar Territory

[1]) Provisionally

ZOO

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Broadcast transmitters (AM and FM)
Communication transmitters
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Dry battery radio receivers
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Pocket and portable radios
Clock radios
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Record players and changers
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High Fidelity equipment
Pick-up heads
Lighting equipment for studios and general purposes
Measuring equipment for radio and TV Service

t electronic industry !

nd agencies in all countries of the world)

TABLE OF THE MOST SUITABLE METRE BANDS

FOR BEST SHORT-WAVE RECEPTION IN EVERY PART OF THE WORLD AT VARIOUS TIMES OF THE DAY IN 1959.

Note: The figures in the table below are calculated for a specific point within each area as indicated on the chart below. The area numbers on the chart refer to the numbers indicated in the left-hand column of the table.
The figures in the table can be regarded only as average figures, as conditions will vary considerably from time to time due to irregularities in the ionosphere.

Example: A listener located in the eastern part of No. Am. (area 3) wishes to hear a station in the so. part of Af. (area 8) on a Jan. evening (21 local time). By following the horizontal column of figures starting at No. Am., East, on the left until it meets the vertical columns under the area no. 8 in the section for the months Nov., Dec., Jan. and Feb. on the right, he will come to the figure 25. This means that the 25 m. b. is the most suitable for listening to the required station at that time.

The listener's area	Local time	Area of the transmitting station																																	
		May			June			July			August			March			April			Sept.			October			Nov.			Dec.			Jan.			Feb.	
		1	2	3	4	5	6	7	8	9	10	11	1	2	3	4	5	6	7	8	9	10	11	1	2	3	4	5	6	7	8	9	10	11
1. Scandinavia	9	25	25	25	25	16	25	16	16	16	16	16	31	25	25	25	19	25	13	13	13	13	13	25	16	31	25	31	25	13	13	13	13	13
	15	25	25	16	25	16	13	13	16	16	16	19	31	19	16	19	16	13	13	13	13	16	16	16	16	13	31	13	13	13	13	16	31	25
	21	25	25	16	19	16	13	16	13	16	16	25	31	25	16	16	13	19	16	16	16	25	19	41	49	25	25	25	25	25	31	31	31	31
2. Central-Europe	9	25	19	25	19	16	25	13	13	13	16	16	25	25	25	25	25	19	13	13	13	13	13	16	16	31	31	31	13	13	13	13	13	13
	15	25	25	16	16	13	13	13	13	13	16	25	19	19	13	16	13	13	13	13	13	13	13	16	16	13	13	13	13	13	13	13	25	13
	21	25	25	16	16	13	13	16	13	13	16	25	25	31	13	19	16	19	16	13	19	16	16	49	41	25	19	19	25	31	19	31	31	31
3. North America, East	9	16	25	31	16	13	13	13	13	16	19	19	16	13	31	16	13	13	13	13	16	19	16	13	13	31	16	16	13	13	13	16	41	13
	15	16	16	31	13	13	13	13	13	16	16	13	16	13	25	13	13	13	13	13	19	16	19	25	25	16	13	13	13	13	13	25	25	16
	21	16	16	31	13	16	13	16	16	16	16	13	25	25	31	13	16	19	16	19	19	16	19	31	41	31	13	25	25	25	25	25	13	19
4. North America, West	9	25	16	13	25	16	13	16	19	16	16	31	16	16	13	16	13	13	16	13	16	19	25	19	13	13	13	13	13	25	13	31	31	16
	15	19	16	13	19	16	13	16	25	16	16	13	19	25	13	13	13	13	13	13	19	13	13	25	41	13	13	13	13	13	13	31	13	13
	21	25	19	13	19	16	16	16	41	13	16	13	19	31	16	25	16	19	19	19	16	13	13	25	41	13	25	25	19	25	25	25	25	19
5. South America, North	9	16	13	13	16	19	13	13	13	13	13	13	16	13	13	13	16	13	13	13	13	16	19	13	13	13	16	13	13	13	13	19	31	16
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6. South America, South	9	13	13	13	19	13	13	13	13	13	25	25	13	13	13	25	13	16	13	13	13	25	19	13	13	13	25	13	13	13	13	13	25	13
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7. Africa, North	9	16	13	19	19	16	19	25	13	13	13	13	13	13	25	25	16	16	13	13	13	13	13	13	13	25	25	13	13	13	13	13	13	13
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8. Africa, South	9	25	13	16	25	25	31	13	19	13	13	13	13	13	19	25	13	19	13	16	13	13	13	13	13	25	25	19	13	13	16	13	13	16
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9. South Asia	9	16	16	16	13	13	25	13	19	16	13	13	16	25	19	13	16	19	19	16	31	13	13	31	41	25	19	25	16	25	13	13	13	13
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10. East Asia	9	19	16	16	16	13	13	13	16	13	19	13	25	19	13	13	13	13	19	16	19	13	13	31	31	13	13	16	13	25	16	25	19	13
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11. Australia	9	19	16	13	13	13	19	13	25	19	13	19	25	16	13	13	13	16	16	25	19	13	19	31	31	16	13	13	13	13	19	19	13	16
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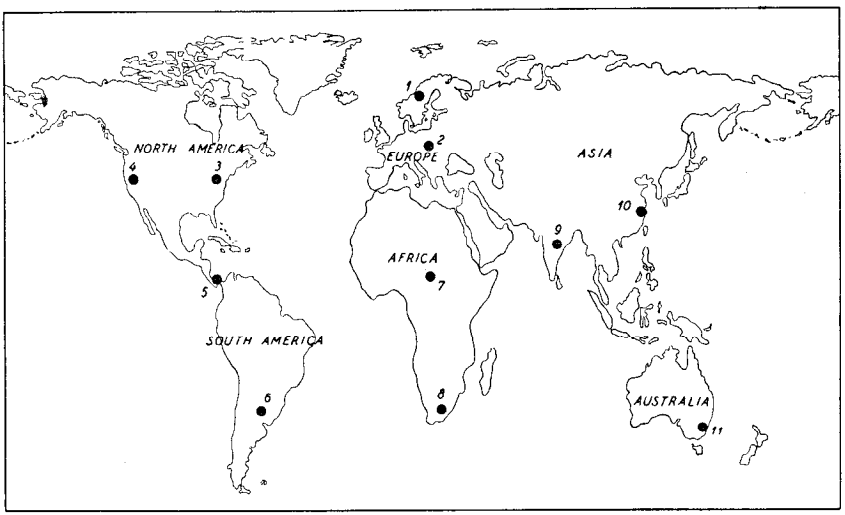
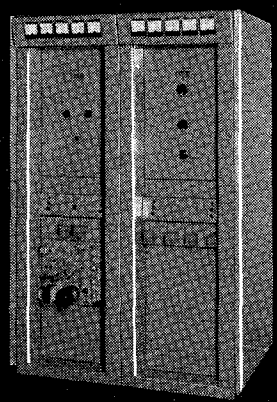


1. Scandinavia
2. Central-Europe
3. North America, East
4. North America, West
5. South America, North
6. South America, South
7. Africa, North
8. Africa, South
9. South Asia
10. East Asia
11. Australia



5 KW. FM TRANSMITTER

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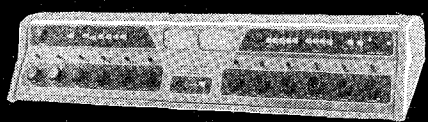
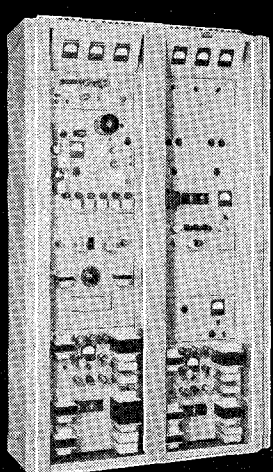
GATES is the largest supplier of AM radio broadcasting equipment in the U.S.A. The prime reason for GATES' popularity everywhere, is that while maintaining the highest standards of Quality, GATES equipment is always competitively priced—and equally important, costs less to install and to operate. Why not write today for descriptive literature and engineering data on this modern GATES equipment.



DUAL CHANNEL CONSOLE



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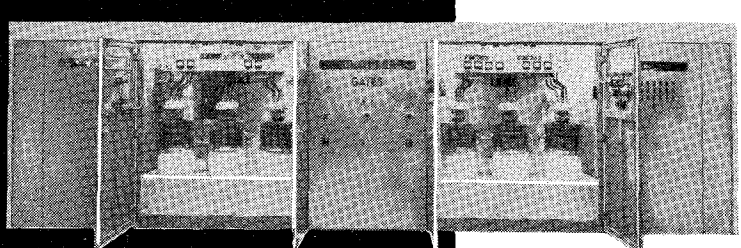

50 KW. AM TRANSMITTER

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← **Radio Ankara:** An announcer reads the news.

↓ **Radio Nacional, Portugal:** José Amado, in "Correio dos Ouvintes" (Mailbag.)

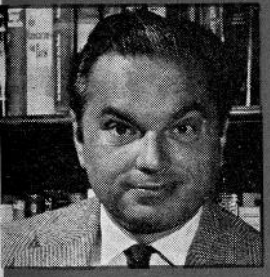
↑ **All India Radio:** Shrimati Indira Gandhi being interviewed in Hindi by children in AIR's Overseas Service.

← **Radio Nederland Wereldomroep:** The producer of the "Happy Station"-prgr.: Edw. Startz.

← **Radio Australia:** Mrs. Jocelyn Terry conducts the "Calling Antarctica", Fri. at 10.10.

↑ **Radio Japan:** Japanese music in the Home Service. Duet of Koto and Shamisen. The Koto is a 13-stringed floor harp, and the Shamisen a 3-stringed instrument.

← **Radio Vilnius,** Lithuania: Miss Dana Rutkute, one of the lady announcers.



← **Südwestfunk, Germany:** Horst Uhse, a popular announcer of the entertainment prgr.

← → **Radiodiffusion-Télévision Française:** Lady-announcers: Left: Jacqueline Caurat. Right: Jacqueline Huet

↑ **The Voice of Indonesia:** Mrs. Carry Sahanaja, lady-announcer in the French prgr.

Voices of the World

HOW TO USE THE WORLD RADIO HANDBOOK

The practical information given in the following section in respect of the broadcasting services of each individual country includes:

Local Time and Languages used are indicated for each country and as far as possible the number of receivers in use.

The Addresses of the broadcasting companies in question. Where broadcasts are commercial this is stated.

Names and Titles of the leading personalities in each company.

List of Stations (A.M., F.M.) operated by each company with call signs of their transmitters, all frequencies and wavelengths (medium-, shortwave, ultrashortwave), as well as their power expressed in kilowatts (or watts) or megacycles.

Each short-wave station has its own identification call sign consisting of 3–5 letters or a combination of letters and figures of which the first, or two first, denote the nationality in accordance with the international list of station prefixes. (See page 21). Some short-wave stations, the American ones for example, use these call-signs when announcing themselves.

Long and medium wave stations are divided into three categories, viz. (1) **Main Stations**, which are so powerful that they can generally be heard throughout the whole area of the country in question, and from which most of the broadcasts emanate; (2) **Regional Stations**, which can be heard only within a certain area of the country, and whose broadcasts consist partly of re-transmissions of the programmes of the main stations and partly of their own programmes; (3) **Relay** and **Local Stations**, which mostly re-transmit main station programmes. These relay stations are the weakest, and are local stations which can be heard only within a limited area. The above-mentioned stations are all **AM stations**, i.e. amplitude-modulated stations. In addition, there is a fourth category of stations: (4) **FM stations**, i.e. frequency modulated stations, in order to give listeners a reception free of interference. These stations have only a very short radius, and are consequently local stations.

Most short wave stations use directional aerials, i.e. their broadcasts are directed toward particular areas, and these give the names to the various services: European Service, Near Eastern, Middle Eastern, Far Eastern, Pacific, Latin-American, Caribbean Service, etc. Language and frequency employed vary according to the area to which broadcasts are directed.

The best reception should be obtained from the transmissions which are specially directed to your area. However, there is a good deal of overlapping between adjacent service areas, so that it is often possible to obtain good reception outside the times shown. Short wave propagation conditions are continually changing because of the influences of daylight and darkness, seasonal considerations, and solar activity. In consequence, waveband changes have to be made from time to time if good reception is to be maintained.

Times are shown on the 24 hours system. In this system midnight is 00.00 hrs., 3 am: 03.00 hrs., 10 am: 10.00 hrs. and midday 12.00 hrs. Instead of starting again at 1 o'clock, as the 12-hour system does, the 24-hour system continues to increase the number of each hour until 23.59 (11.59 pm.) is reached. Thus 13 hrs. is 1 pm., 17.00 hrs. 5 pm. and so on. The great advantage of the system is that it eliminates any possible confusion between times a.m. and times p.m.

On page 18 you will find a Local Time Conversion Table which gives the local times (summer and winter) in most parts of the world in relation to Greenwich Mean Time (G.M.T.). For example, from September to May it is 15.00 hours New York time when it is 20.00 hours G.M.T., since the table indicates that local time in New York is 5 hours behind G.M.T. From May to September U.S.A. introduces daylight saving time and, consequently, it is 16.00 hours New York time when it is 20.00 hours G.M.T. If you are listening at sea you should consult the radio-officer for the varying differences between ships time and G.M.T.

Frequency and Wavelength. Frequency and Wavelength are divided into the following groups: **Long waves, medium waves, short waves** and **ultra short waves** (V.H.F. – very high frequencies – FM).

The wavelength of a station is measured in metres and kilocycles per second (kc/s); for FM-stations in megacycles per second (mc/s). A kilocycle is 1000 cycles; a megacycle 1.000.000 cycles.

As the velocity of propagation in space is, in round figures, 300.000.000 metres per second, any of the quantities—metres, kilocycles or megacycles—are readily converted into the other forms by means of the following formulae:

Metres to Kilocycles	**Metres to Megacycles**
Metres = 300,000/Frequency (kc/s)	Metres = 300/Frequency (Mc/s)
Kilocycles to Metres	**Megacycles to Metres**
kc/s = 300,000/Wavelength (metres)	Mc/s = 300/Wavelength (metres)

Daily Programmes: Under this heading you will find information concerning the total broadcasting

Continued page 30.

G.E.C. electronic devices

Transmitting Valves
Industrial Valves
"Special Service" Valves
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Voltage Stabiliser Tubes
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J249

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HOW TO USE THE WRH *continued from page 28.*

hours on the different frequencies employed during transmission hours, as well as a survey of the news. and other fixed programmes of interest: National music, mailbag, language lessons, weather reports, program preview, time signals etc.

Announcements: The language alone is not a conclusive indication of the origin of a broadcast to which you may be listening. Hearing a programme in French or Spanish, for instance, does not necessarily mean that it is transmitted by a French or Spanish station respectively. To make sure of identifying a station correctly it is, therefore, essential to wait for the announcement which every station broadcasts at regular intervals. These call signs are given in this book for practically all the stations listed.

Interval-Signals: For identifying stations it is also of importance to know the signals used during the intervals between programme items. Under each station you will, therefore, find an indication of the type of signal used, and in many cases a reproduction of the musical notes of this signal.

Shortwave broadcasting takes place mainly on the following metre bands (m.b.):

49 metre band – 41 metre band – 31 metre band – 25 metre band – 19 metre band – 16 metre band – 13 metre band and 11 metre band.

Many short-wave stations lie outside these bands. The 60 and 80 metre bands are used for local broadcasting, i.e. for reception over relatively short distances, which applies, for example, to many South and Central American stations and stations in Central Africa.

In the following pages you will find a large variety of call-signs and frequencies. In many cases these belong to the same transmitters which are connected to different aerials designed to radiate signals to the best advantage in respect of each service. The various call-signs usually serve to identify individual frequencies.

Many programmes are broadcast simultaneously from several transmitters on different frequencies, which enables you to select the one which is the most clearly audible in your area or on your particular receiver. If reception on one of the frequencies used is poor, you should examine reception conditions on the other frequencies employed by the same station. On page 24 you will find a table of the most suitable metre bands for best short-wave reception in every part of the world at various times of the day throughout the year 1959.

Verification by QSL-cards. As indicated in the survey of the broadcasting services of the various countries, many of the stations listed are interested in receiving reports from listeners in respect of their transmissions. These stations acknowledge reports by sending listeners a QSL-card (verification) or a letter. For most of these stations it is stated whether reports are answered by QSL-card or letter and if return postage is required. If nothing is mentioned, it is unnecessary to send reply postage. Many short-wave listeners make a hobby of collecting these QSL-cards which are often elaborately designed and colourful.

Reports from Listeners: Listeners' reports can in most cases be written in English, but Spanish is preferable when writing to South or Central American stations.

In the new edition of How to Listen to the World you will find all information about how to write your reports to the stations. –

If reply postage is required by a station, enclose with your reports an International Reply Coupon obtainable at most post offices. The full address of each station will be found in the individual surveys.

How to identify a short-wave station:

Whenever you come across a station which is unknown to you, proceed as follows for identification: Read the approximate frequency indicated on your dial in megacycles or kilocycles or the wavelength in metres. Find from the table of frequencies and wavelengths what stations are working in the neighbourhood of the reading shown by your dial. When you have reduced the source of the broadcast to one or two possibilities and at the same time noted details of the program heard and the language used, check these data against the program surveys printed in this Handbook. For confirmation it is advisable to wait for the station announcement or interval signal mentioned previously.

Reception reports are particularly useful to the engineers in selecting the most suitable wavelengths for your area, Use of the SINPO code or of the „555" code for reports are very helpful. The codes are as follows:

SINPO-code

S	I	N	P	O
5 excellent	5 nil	5 nil	5 nil	5 excellent
4 good	4 slight	4 slight	4 slight	4 good
3 fair	3 moderate	3 moderate	3 moderate	3 fair
2 poor	2 severe	2 severe	2 severe	2 poor
1 barely aud.	1 extreme	1 extreme	1 extreme	1 unusable

S = Signal strength. I = interference. N = noise.
P = propagation disturbance. O = Overall merit.

"555"-code

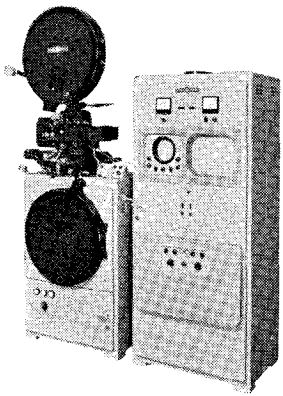
S	I	O
0 inaudible	0 very strong	0 nil
1 very weak	1 strong	1 very poor
2 weak	2 fairly strong	2 poor
3 fairly strong	3 weak	3 fair
4 strong	4 very weak	4 good
5 very strong	5 none	5 very good

Example: 543 means a very strong signal with weak interference reducing the overall reception merit to good.

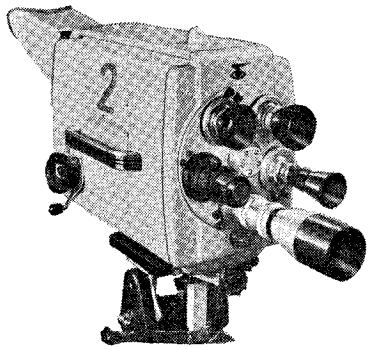
THE NEW EDITION OF »HOW TO LISTEN TO THE WORLD«

will help you to get the best from your receiver. It explains in simple language how to set about finding, identifying and logging foreign stations and getting good results throughout the year. Price: Da. Kr. 6.50, £ 1/6/6, $ 1.00, or Dm. 4.00. Order you copy now through a bookseller or direct from World Radio Handbook, Lindorffs alle 1, Hellerup, Danmark.

TV STUDIO EQUIPMENT



Flying spot film scanner



Studio Camera

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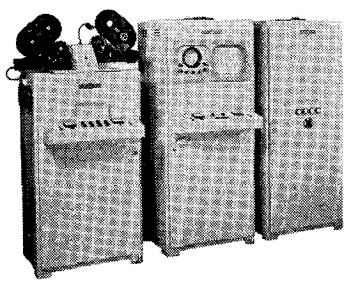
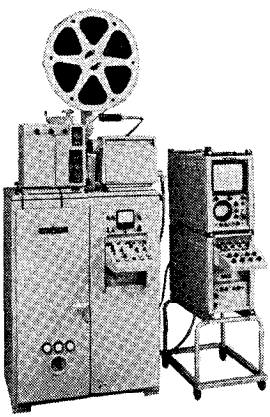
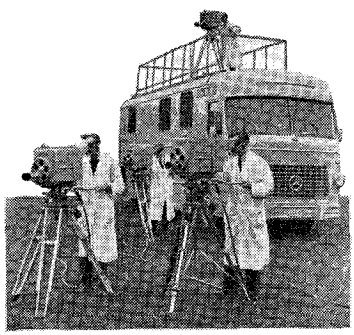


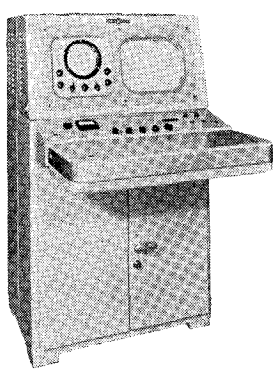
16– and 35–mm Kine–Recorder



Vidikon film scanner



OB–Van



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TROMSÖ
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MURMANSK
White Sea
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NARVIK
KIRUNA
ROVANIEMI
BODÖ
LULEA
OULU
KAJAANI
YLIVIESKA
FINLAND
JOENSUU
PETROSAVODSK
KOKKOLA
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GÖTEBORG
KALMAR
VILNIUS
KAUNAS
KURSK
KRISTIANSSAND
HALMSTAD
KARLSKRONA
GOMEL
North Atlantic Ocean
DENMARK
MINSK
BURGHEAD
AALBORG
MALMÖ
HÖRBY
Baltic Sea
SCOTLAND
SKIVE
HÄLSINGBORG
KALININGRAD
CHARKOV
North Sea
REDMOSS
COPENHAGEN
BARANOVITJI
KALUNDBORG
GDANSK
KIEV
WESTERGLEN
ESBJERG
BIALYSTOK
EDINBURGH
TÖNDER
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MOORSIDE
THOOGEZAND
WROCLAW
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TIMISOARA
BUCURESTI
ROUEN
PARIS
NANCY
STRASBOURG
MÜNCHEN
GRAZ
STALIN
CRAIOVA
VARNA
BREST
QUIMPER
RENNES
INNSBRUCK
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NOVISAD
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SOTTENS
MONTE CENERI
PRISTINA
POITIERS
VENEZIA
SOFIA
LIMOGES
SARAJEVO
TITOGRAD
CLERMONT FERRAND
LYON
MILANO
SKOLPJE
THESSALONIKI
GRENOBLE
TORINO
BOLOGNA
DUBROVNIK
KOMOTINI
Bay of Biscay
SAN REMO
ANCONA
TIRANA
NIMES
PESCARA
Aegean Sea
BORDEAUX
MONTE CARLO
ITALY
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KORCA
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PORTUGAL
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Sicily
PAREDE
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Malta
HUELVA
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TELEFUNKEN

Fernsehgeräte · Fernsehkombinationen

Rundfunkgeräte · Musiktruhen

Plattenwechsler · Schallplatten

Tonbandgeräte Magnetophon

Elektroakustische Anlagen

Rundfunkröhren · Fernseh-Bildröhren

Senderöhren · Spezialröhren

Halbleiter · Quarze

Sender jeder Art · HF-Generatoren

Peiler · Radaranlagen

Weitverkehr-Empfangsanlagen

Navigationsanlagen

Funksprechanlagen · Mehrfachanschlüsse

Meßgeräte · Analogrechner

Fernüberwachungsanlagen

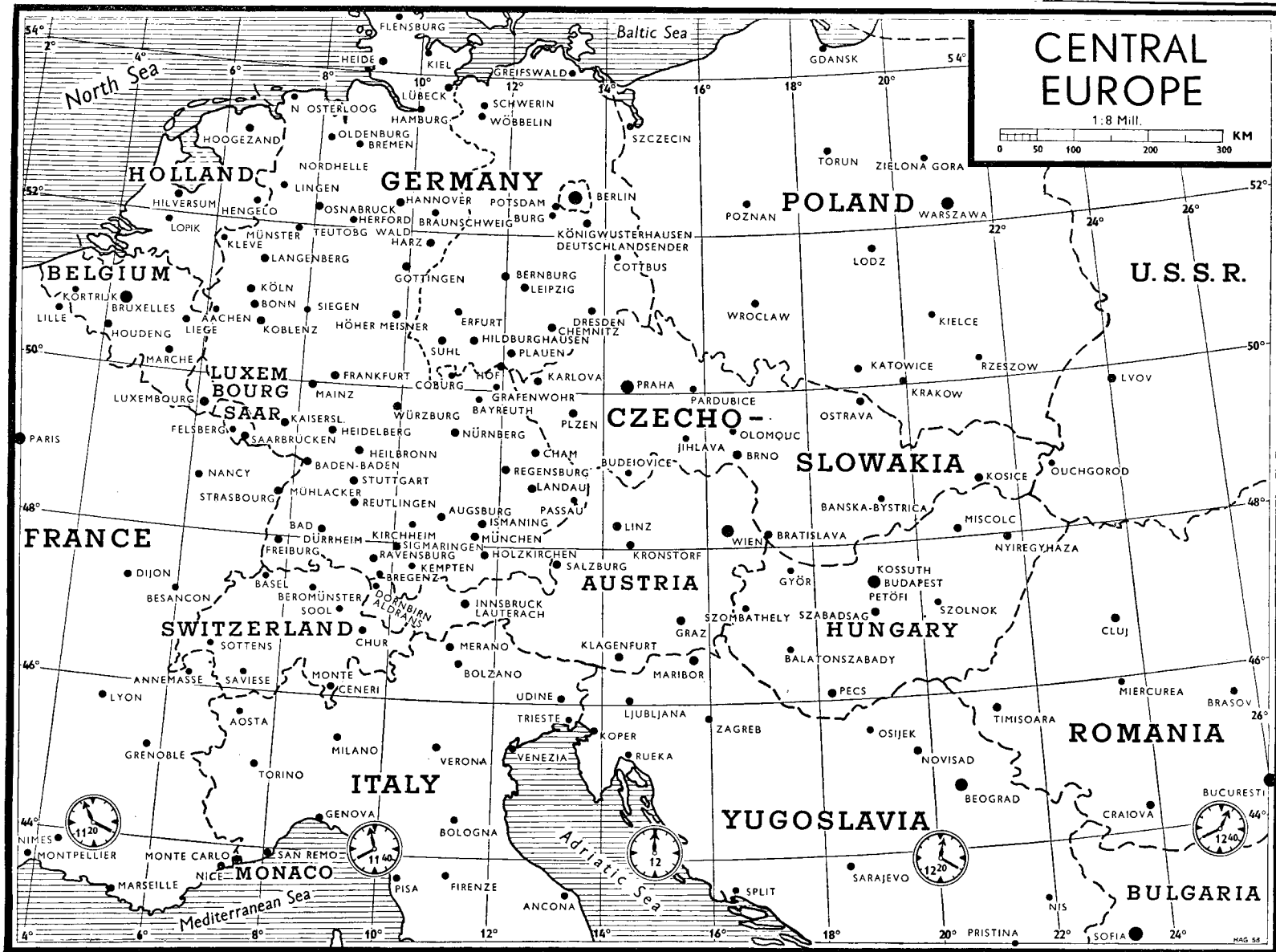
Trägerfrequenzgeräte · Richtfunkanlagen

Relaisübertragungen

Fernmeldekabel und Zubehör

TELE FUN KEN

TELEFUNKEN DIENT DER WELT


CENTRAL EUROPE
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KM
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North Sea
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Adriatic Sea
HOLLAND
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KIEL
GREIFSWALD
LÜBECK
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SCHWERIN
WÖBBELIN
N OSTERLOOG
OLDENBURG
BREMEN
HOOGEZAND
NORDHELLE
LINGEN
HILVERSUM
HENGELO
OSNABRUCK
HERFORD
LOPIK
MÜNSTER
TEUTOBG WALD
KLEVE
HARZ
HANNOVER
BRAUNSCHWEIG
POTSDAM
BERLIN
BURG
KÖNIGWUSTERHAUSEN
DEUTSCHLANDSENDER
COTTBUS
LANGENBERG
GOTTINGEN
BERNBURG
LEIPZIG
KÖLN
BONN
SIEGEN
KORTRIJK
BRUXELLES
LILLE
AACHEN
LIEGE
KOBLENZ
HÖHER MEISNER
ERFURT
DRESDEN
CHEMNITZ
HILDBURGHAUSEN
HOUDENG
SUHL
PLAUEN
MARCHE
FRANKFURT
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KARLOVA
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WÜRZBURG
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CHAM
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STUTTGART
REGENSBURG
STRASBOURG
MÜHLACKER
LANDAU
REUTLINGEN
AUGSBURG
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FREIBURG
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RAVENSBURG
HOLZKIRCHEN
KEMPTEN
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BASEL
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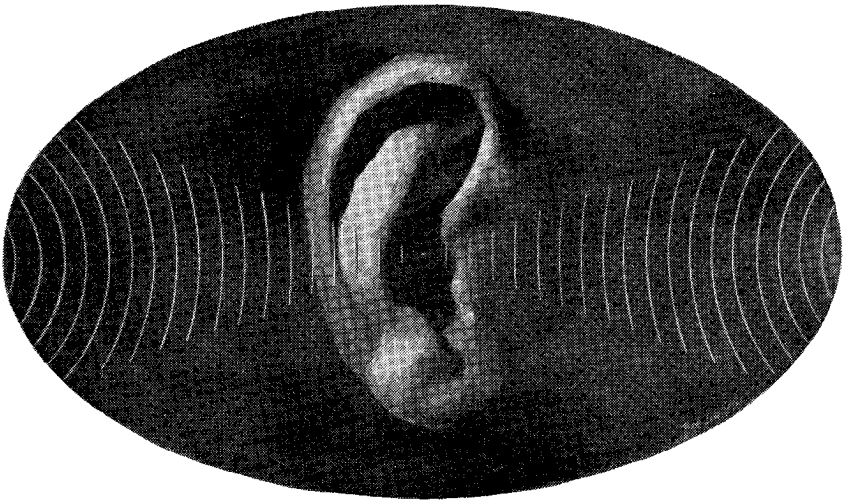

Listen! Every sound recorded lifelike on SCOTCH Brand Magnetic Tapes

The whisper of muted violins or the mighty crash of cymbals—you hear them both and all between with brilliant fidelity when they're recorded on "SCOTCH" Brand Magnetic Tape.

Now there are four famous "SCOTCH" Brand tapes to choose from: popular No. 111 Tape for low-cost recordings; High Output Tape No. 120 for fullest dynamic range sound; Extra Play Tape No. 190 for 50% extra recording time on a single reel, and new Extra Play Tape No. 150 offering as much recording time as 1½ reels of conventional tape, made with polyester backing for stability in any climate, any temperature.

For helpful, free booklet, "Properties of Scotch Magnetic Tapes" write Minnesota Mining and Manufacturing Co., International Division, 900 Bush Avenue, St. Paul 6, Minn., U.S.A.

"SCOTCH" Brand Magnetic Tapes, like the thousands of other products made by Minnesota Mining and Manufacturing Company, are designed to meet the highest standards of performance. A program of continuous research insures the highest quality as well as a constant flow of new products. Good reasons to *always* look to 3M—*first*.

PRODUCT OF 3M COMPANY RESEARCH

"SCOTCH" is a registered trademark of Minnesota Mining and Manufacturing Co.

WICON

CAPACITORS
everywhere
— for any purpose

ELECTROLYTIC CAPACITORS

PAPER CAPACITORS

MOTOR STARTING CAPACITORS

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AUTOMOBILE CAPACITORS

WICON

MAKERS OF FIXED CAPACITORS
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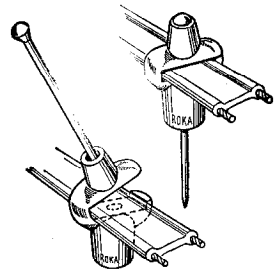


ROKA

Little Berliners

The surprisingly simple and inexpensive indoor-isolators for 300 Ohm twin-lead.

Unbreakable,
symmetrical,
no loose parts,
safe

ROKA ROBERT KARST
Berlin-SW. 29. (U.S. Sector)

Number of licenses

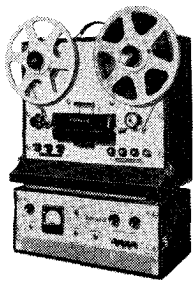
issued or receivers estimated in use.

EUROPE	
Albania	25.000
Andorra	4.000
Austria	1.864.872
Belgium	2.000.000
Bulgaria	570.000
Czechoslovakia	3.269.970
Denmark	1.448.854
Finland	1.127.260
France	10.497 172
Germany	
Fed. Rep.	14.831.248
Dem. Rep.	5.150.000
Gibraltar	4.583
Gt. Britain	14.683.125
Greece	672.843
Greenland	4.000
Holland	2.973.888
Hungary	1.894.546
Iceland	45.000
Ireland	480.000
Italy	7.009.074
Luxembourg	89.742
Malta	42.768
Monaco	5.000
Norway	988.765
Poland	4.400.000
Portugal	623.478
Rumania	1.500.000
Spain	2.000.000
Sweden	2.625.509
Switzerland	1.334.461
USSR, Eu.	8.205.866
Yugoslavia	890.361
AFRICA	
Algeria	450.000
Angola	96.000
Bechuanaland	3.000
Belgian Congo	50.000
Cameroons	100.000
Canary Isl.	90.000
Cape Verde Isl.	14.000
Dahomey	2.000
Egypt	1.000.000
Ethiopia	50.000
French Eq. Afr.	3.600
Gambia	1.000
Ghana	80.000
Gilbert-Ellice Isl.	200
Guinea	2.000
Guinea (Port	1.434
Guinea (Sp.)	1.200
Ivory Coast	30.000
Kenya	23.351
Liberia	10.000
Libya	25.000
Madagascar	55.000
Mauritius	25.845
Morocco	477.598
Mozambique	36.167
Niger	1.000
Nigeria	63.000
Rhodesia	90.000
Reunion	12. 000
Senegal	100.000
Seychelles	150
Sierra Leone	6.500
Somaliland (It.)	21.000
Somaliland (Br.)	2.000
Somaliland (Fr.)	5.000
Sudan	7.000
Sudan (French)	3.000
Tanger	12.500
Tanganyika	20.000
Tunis	145.000
Uganda	62.000
Union of So.Afr.	800.000
Zanzibar	3.500
NEAR EAST	
Aden	50.000
Afghanistan	12.000
Bahrain	5.000
Cyprus	95.000
Iran	800.000
Iraq	80.000
Israel	360.000
Jordan	53.281
Lebanon	80.000
Saudi Arabia	18.000
Syria	800.000
Turkey	1.097.160
EAST	
Borneo (N.Br.)	7.960
Brunei (Brit.)	3.000
Burma	50.000
Cambodia	7.000
Ceylon	198.989
China, P.R.	1.800.000
Goa (Port)	30.000
Guam	25.000
Hong Kong	70.000
India	1.347.216
Indonesia	1.000.000
Japan	14.831.765
Korea (Dem. Rep.)	589.036
Korea (Rep.)	300.000
Laos	15.000
Macau	6.000
Malaya	189.093
Nepal	10.000
Pakistan	100.039
Philippines	305.000
Sarawak	25.000
Singapore	61.901
Taiwan	249.081
Thailand	250.000
Viet-Nam., Rep.	100.000
PACIFIC	
Australia	2.146.608
Cook Islands	400
Fiji	18.000
Hawaii	450.000
New Caledonia	5.000
New Zealand	621.000
Samoa, Western	2.000
Samoa, American	2.000
Solomon Isl.	500
Tahiti	10.000
AMERICA, NORTH	
Canada	6.700.000
Mexico	2.500.000
United States	194.600.000
AMERICA, CENTRAL	
Bahamas	16.000
Barbados	10.000
Bermuda	16.200
Costa Rica	75.000
Cuba	900.000
Dominican Rep.	150.000
El Salvador	30.000
Guadeloupe	15.000
Guatemala	350.000
Haiti	20.000
Honduras (Br.)	4.000
Honduras (Rep.)	32.000
Jamaica	17.000
Leeward Isl.	5.000
Martinique	9.000
Netherl. Ant.	30.000
Nicaragua	35.000
Panama	120.000
Puerto Rico	270.000
Trinidad	36.000
Virgin Islands	15.000
Windward Isl.	12.000
AMERICA, SOUTH	
Argentina	3.000.000
Bolivia	250.000
Brazil	3.500.000
Chile	660.000
Colombia	2.500.000
Ecuador	50.000
Falkland Isl.	500
Br. Guiana	65.000
Paraguay	90.000
Peru	600.000
Surinam	11.000
Uruguay	700.000
Venezuela	230.000

MORHAN

delivers the world's finest recording and playback equipment throughout the world

Pentron Dynacord *stereo/monaural professional tape recorder*

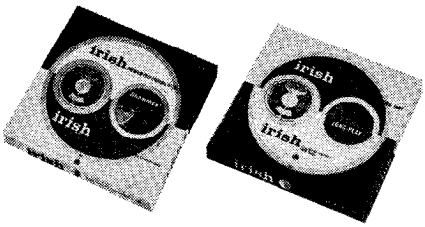


The result of three years of research and development, the Dynacord at last reconciles fully professional performance with relatively moderate cost. Not only is it the only completely solenoid-operated professional tape recorder in its price class, but—when used in conjunction with a matching Pentron electronic assembly—it offers a degree of sonic fidelity, foolproof operating simplicity and overall reliability which is close to the ultimate at the present stage of the recording art.

15 and 7½ ips speeds • advanced-design head blocks available in stereo or monaural head configurations • completely electrical pushbutton operation

Manufactured by **Pentron** *Special Products Division*

Irish Ferro-Sheen *high-fidelity recording tapes*



The exclusive **Irish Ferro-Sheen** process of magnetic tape manufacture represents a radical departure from conventional "coated tape" techniques and is a completely original method of controlling the physical properties of the magnetic oxide layer and its lamination to the tape base. **Irish Ferro-Sheen** tapes are distinguished by almost total freedom from oxide shedding and by an unprecedentedly smooth oxide surface which results in reduced head wear, lower random noise, superior frequency characteristics, stabler tape motion, reduced drop-outs and unusually low print-through.

THERE'S AN **IRISH** TAPE FOR EVERY RECORDING REQUIREMENT

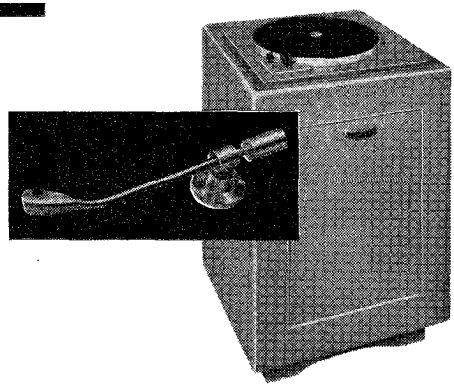
Irish Ferro-Sheen Green Band—on 1½-mil acetate film base
Irish Ferro-Sheen Shamrock—on 1½-mil pre-selected acetate film base
Irish Ferro-Sheen Long Play—available on either 1-mil acetate or 1-mil Mylar* polyester film base
Irish Ferro-Sheen Sound Plate—on 1½-mil Mylar* polyester film base
Irish Ferro-Sheen Double Play—on ½-mil Mylar* polyester film base
Irish Ferro-Sheen fortified Double Play—on ½-mil specially strengthened Mylar* polyester film base

*Du Pont's registered trademark

Manufactured by **ORRadio** *Industries, Inc.*

World's Largest Exclusive Magnetic Tape Manufacturer

Rek-O-Kut *turntables and pickup arms*



Model B-16H three-speed 16-inch transcription turntable

The last word in professional turntable design—with shock-mounted hysteresis synchronous motor, precision turntable assembly, and Lamitex motor pulley pressure-fitted and ground directly on motor shaft.

Stereo/Monaural turntable arms. Designed to accommodate the new 3 and 4-terminal stereo cartridges, as well as standard monaural cartridges • Closest approach to completely free cartridge suspension—utilizes special friction-free pivot bearings • Maximum horizontal and vertical compliance for optimum tracking and greatly reduced distortion and record wear • Acoustical damping for lowest resonance • Interchangeable plug-in cartridge shells; micrometer stylus pressure adjustment; variable height adjustment.

Model S-120: 12″ stereo/monaural arm • Model S-160: 16″ stereo/monaural arm • Model PS-20: extra stereo shell.

World-famous REK-O-KUT Rondine turntables. Seven models available, ranging from the custom-built, three-speed, hysteresis-motor Rondine Deluxe, Model B-12H, to the new Rondine Model K33 single-speed turntable kit.

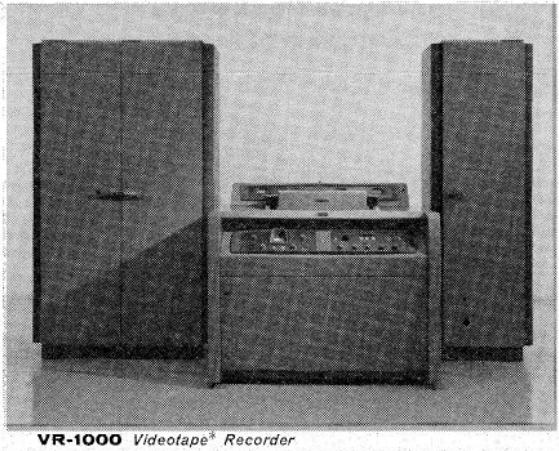
Made by **REK-O-KUT**

World's Finest Disc Recording and Playback Equipment

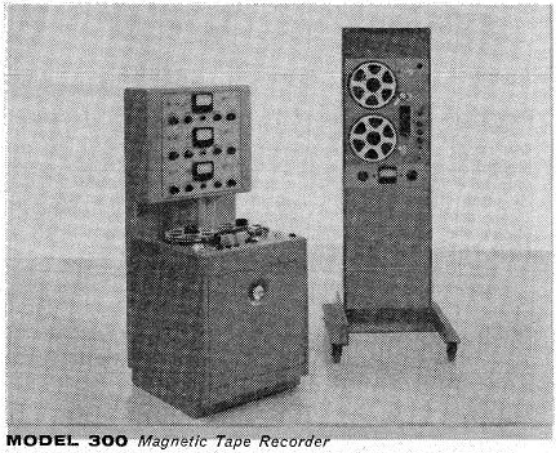
AMPEX

World Leader in Precision Magnetic Tape Recording Instruments

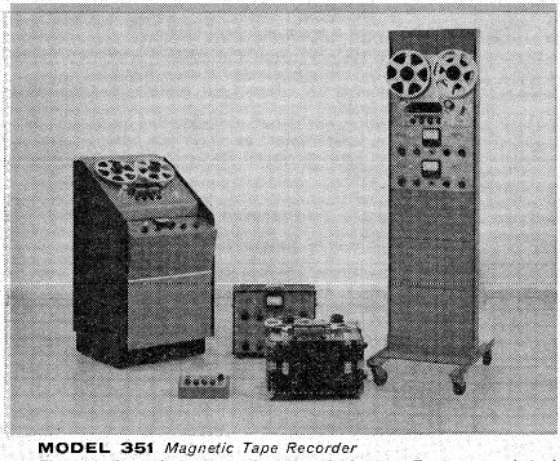
Ampex Tape Recorders are in service throughout the world in television and radio stations, and in professional sound recording studios . . . wherever finest quality is required.



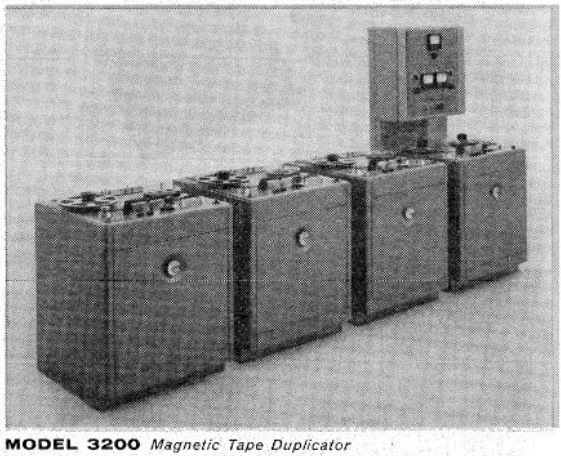
VR-1000 *Videotape* Recorder*
First commercially available Videotape Recorder. Magnetically records what the TV camera "sees," in either black and white or color. Playbacks look "live."



MODEL 300 *Magnetic Tape Recorder*
Standard of the professional recording industry, it consistently delivers the finest in audio reproduction. Available in as many as 8 channels, in console and rack mounting.



MODEL 351 *Magnetic Tape Recorder*
First choice of the broadcasting industry. Features printed circuits and miniature tubes. Available in console, rack and portable models, with one or two channels.



MODEL 3200 *Magnetic Tape Duplicator*
High speed duplication, with superb fidelity, of recorded master tapes. Makes up to 10 copies at one time. Available with one, two or four channel heads.

*TM Ampex Corporation

Fully illustrated brochures, complete with specifications, are available on each recorder and the duplicator. Technical bulletins are also available on the following subjects: VIDEOTAPE RECORDING • VIDEOTAPE SPLICING • MULTI-CHANNEL RECORDING • MULTI-CHANNEL TECHNIQUES. See your nearest distributor listed on next page or write to Ampex.

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professional products division

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SWITZERLAND	Megex-Zurich, Zurich
TAHITI	Oceanic Garage, Papeete
THAILAND	G. Simon Radio Company, Ltd., Bangkok
TRINIDAD	Beecham Coates Company, Port-of-Spain
TURKEY	Nefan, Ltd., Istanbul
URUGUAY	M. Gonzales del Rio, Montevideo
VENEZUELA	Maracaibo Import, Maracaibo
	Sonotec, S.A., Caracas

FREQUENCY BANDS ALLOCATED TO BROADCASTING, TELEVISION AND AMATEURS.

The table below is based upon the Atlantic City Radio Regulations. For bands between 3 and 27,5 mc/s the present situation differs a little from the table in some cases. Some bands are shared with other services. **Region 1:** Europe, U.S.S.R. in Asia, Africa. **Region 2:** N. and S. America, Northeast Pacific. **Region 3:** Asia exc. U.S.S.R., Australia, part of Pacific.

BC: Broadcasting (AM sound) – BC(trop): Broadcasting (AM sound, tropical zones) – BC(FM): Broadcasting (FM sound) – BC(TV): Broadcasting (Television) – AMAT: Amateurs.

	Region 1 kc/s	Region 2 kc/s	Region 3 kc/s
BC	150–285		
BC	525–1605	535–1605	535–1605
AMAT		1800–2000	1800–2000
BC(trop)	2300–2498	2300–2495	2300–2495
BC(trop)	3200–3400	3200–3400	3200–3400
AMAT	3500–3800	3500–4000	3500–3900
BC	3950–4000		3900–4000
BC(trop)	4750–5060	4750–5060	4750–5060
BC	5950–6200	5950–6200	5950–6200
AMAT	7000–7150	7000–7300	7000–7150
BC	7100–7300		7100–7300
BC	9500–9775	9500–9775	9500–9775
BC	11700–11975	11700–11975	11700–11975
AMAT	14000–14350	14000–14350	14000–14350
BC	15100–15450	15100–15450	15100–15450
BC	17700–17900	17700–17900	17700–17900
AMAT	21000–21450	21000–21450	21000–21450
BC	21450–21750	21450–21750	21450–21750
BC	25600–26100	25600–26100	25600–26100
AMAT	28000–29700	28000–29700	28000–29700
	mc/s	mc/s	mc/s
BC(TV)	41–68	44–50	44–50
AMAT		50–54	50–54
BC(TV)		54–72	54–68
BC(TV)		76–88	
BC(FM)	87,5–100	88–108	87–108
AMAT	144–146	144–148	144–148
BC(TV)	174–216	174–216	170–200
AMAT		220–225	
AMAT	420–460	420–450	420–460
BC(TV)	470–585	470–940	470–585
BC(TV)	610–960		610–960
AMAT	1215–1300	1215–1300	1215–1300
AMAT	2300–2450	2300–2450	2300–2450
AMAT		3300–3500	3300–3900
AMAT	5650–5850	5650–5925	5650–5850
AMAT	10000–10500	10000–10500	10000–10500

DX-PROGRAMMES

AUSTRALIA: »R. Australia«. »Australian DX'ers calling«. Sat. 22.00, Sun. 05.30, 07.15 (Apr.-Sept.), 08.45 (Oct.-March), 13.30, 16.00.

FINLAND: Finnish Broadcasting Co. DX-Prgr. 1st Tues. in the month: 11.30, 13.30.

DENMARK: »Danish State Radio«. A special DX-bulletin is broadcast on Tues. (EST) at the end of the two No. Am. prgrs. (Wed. 02.20, 03.50 GMT.) and Thurs. 09.50, 14.50 GMT.

GERMANY: »Deutsche Welle«. Every 2nd Mo. in the month. 07.30, 15.00, 18.30, 22.30, Tues. 02.00.

HAITI: »St. 4VEH«. Mo. 09.30, Tues. 02.30.

JAPAN: "R. Japan": 4th Fri. 05.15, 06.50, 23,20. 4th Sat. 08.05, 09.20. »Nihon Shortwave Broadcasting Co.«. »DX-News« Sat. 22.15-22.30, (in Japanese only).

SWEDEN: »R. Sweden«. »Sweden calling DX'ers«. Every Mo. in all English & French language broadcasts. Every Wed. in the German broadcast. Beginning fall 1958 also in Spanish and Portuguese.

IBRA RADIO: Last Wed. of the month 19.30-19.45.

SWITZERLAND: »Swiss Shortwave Service«. First Thurs./Fri. of the month (in all English transmissions) at 19.15, 02.00, 04.45, 07.45, 09.30, 13.15, 15.15, 17.15.

U.S.A.: »R. Boston« (WRUL). »Swedish DXprgr.« in the Mo.prgr. 20.30-20.45.

AIR EXTERNAL SERVICES PUBLICATIONS

For overseas listeners to the short-wave transmissions of All India Radio, INDIA CALLING, a monthly programme journal in English, provides a service of advance programme information supplemented by some of the best broadcast talks on life in India today. It is published in three illustrated editions — Eastern, Western and European.

For listeners in West Asia there are IDHAT-EL-HIND, published in Arabic, and SADA-E-HIND, published in Persian. There are also programme bulletins for Burmese, Indonesian, Chinese and Tibetan speaking listeners.

The journals are supplied free of cost to listeners in foreign countries. Requests for them may be forwarded either through the Indian diplomatic missions or direct to

THE DIRECTOR OF

EXTERNAL SERVICES

ALL INDIA RADIO

P. O. BOX 500, NEW DELHI

DA 57/14

ABBREVIATIONS:

Addr. = Address
ABC = Australian Broadc. Comm.
Adm. = Administrator.
AEF = Afrique Equatoriale Française
Af = Africa
AFN = American Forces Network
AFRTS = Armed Forces Radio and Television Service
AIR = All India Radio
Am. = America
A.M. = Amplitude modulation
Ann. = Announcement
AOF = Afrique Occidentale Fr.
Approx. = Approximately
Apr. = April
Apt. = Apartado
As. = Asia
Asst. = Assistant
At. = Atlantic
Au. = Australia
Aug. = August
Av. = Avenue, Avenida
Bldg. = Building
B.P. = *Boite Postale*
Br. = British
Broadc. = Broadcasting
BR. = Bayerischer Rundfunk
BWI = British West Indies
C = Central
Cal. = California
Ch. = Channel
Chi. = Chinese
Ci = Ciudad
Co. = Congo
Com. = Commercial
Corp. = Corporation
D. = Daily
d. = Directional aerial
DS = Danish Ships
DDR = Deutsche Demokra. Rep.
Dec. = December
Def. = Definition
Dep. = Deputy
Dept. = Department
Dir. = Director, Direction
Dir.Gen. = Director General
DX = Long distance
E. = English
Ea. = East
E. by R. = English by Radio
Ed. = Edificio
Eng. = Engineer
Equ. = Equatorial
ERP = Effective radiated power
Eu. = Europe
exc. = Except
exp. = Experimental
F. = French
FCC = Federal Communications Commission
F.E. = Far East
Feb. = February
F.I. = Faeroe Islands
Fi. = Finnish
Fil. = Filipino
Fl. = Flemish
F.M. = Frequency modulation
F.Pl. = *Future plans*
For. Rel. = Foreign Relations
Fri. = Friday
Freq. = Frequency
G. = German
Gen.Mgr. = General Manager
G.M.T. = Greenwich Mean Time
Go. = Government
Gr. = Greek
h. = Hour
H. = Horizontal polarisation
I. = Italian
In. = India
Ind. = Indonesia, Indonesian
Inf. = Information
Int.Sig. = Interval Signal
Indep. = Independent
Icl. = Iceland
Jan. = January
Ja. = Japanese
K. = Korean
KBS = Korea Broadcasting System
kc/s = Kilocycles
kW = Kilowatt
L.P. = Leading Personality(ies)
L. = Language
L.T. = Local Time
L.N. = Local News
L.L. = Language Lessons
Man. = Managing
M.E. = Middle East (Near East)
Mgr. = Manager
Mo. = Monday
m.b. = Meter band
Mbg. = Mailbag
M.W. = Medium Wave
N. = News
N.An. = Netherlands Antilles
Nat. = National
Net. = Network
NDR = Norddeutscher Rundfunk
N.E. = Near East
N.H.K. = Nippon Hoso Kyokai
No. = *North*
Nov. = November
N.Z. = New Zealand
O. = Owner
occ. = Occasionally
Oct. = October
org. = Organization
P. = Portuguese
Pa. = Pacific
Per. = Period
Pro. = Province
Pr. = Private
pres. = President
Prgr. = Programme
Pub. = Publication
QSL = Verification
R. = Radio
Rcvrs. = Number of receivers
Rdif. = Radiodifusora
Red. = Rediffusion
Reg. = Regional
Rel. = Relay
RIAS = Rundfunk im am. Sektor
R.p. = Return postage required
RTF = Radiodiffusion Télévision Française
Ru. = Russian
Sat. = Saturday
Sce. = Service
sched. = Schedule
Secr. = Secretary
Sep. = September
So. = South
So.W. = South West
Sp. = Spanish, Spain
St. = Station
Str. = Street
Su. = Summer
Sun. = Sunday
S.W. = Shortwave
Sw. = Sweden, Swedish
SWF = Südwestfunk
Tag. = Tagalog
Tec. = *Technic*
Thurs. = Thursday
Tr. = Transmitter, transmission
Tues. = Tuesday
T.V. = Television
U.K. = United Kingdom
USSR = Union of the Soviet Socialist Republics
V. = Vertical polarisation
V. = Verification
Vis. = Visayan
VOA = Voice of America
W. = Weekdays
We. = West
Wed. = Wednesday
Wi. = Winter
Wrp. = Weather report
VUNC = Voice of U.N. Command

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CATHOLIC:

Radio Vatican: Vatican City, Roma, Italy.

KRO, Katholike Radio-Omroep, Hilversum

RELIGIOUS PROGRAMME SOCIETIES EVANGELISTIC:

IBRA: Radio A/B, Box 821, Stockholm 1, Sweden. (Broadcast from Radio Africa, Tangier).

Norea Radio: Nordic Radio Evangelistic Association, Oslo, Norway.

IKOR, Interkerkelijk Overleg in Radioangelegenheden: Borneolaan 27, Hilversum.

NCRV, Nederlandsche Christelijke Radio Vereeniging: Schuttersweg, Hilversum.

VPRO, Vrijzinnig Protestantse Radio-Omroep: Hilversum, Holland.

Radio Reveil: via Tesserete 33, Lugano Switzerland.

The Voice of Tangier: Tangier.

The Voice of Andes: Quito.

Faro del Caribe: San José.

Broadcasting and Film Commission of the National Council of Churches of Christ in the USA: 220 Fifth Avenue, New York 1, N.Y., USA.

RAVEMCCO, Radio Visual Education and Mass Communication Committee of the Division of Foreign Missions of the National Council of the Churches of Christ in the USA, 156 Fifth Avenue, New York 10, N.Y., USA.

The Lutheran Hour "Bringing Christ to the Nations": The Lutheran Laymen's League, 3558 Jefferson Avenue, Saint Louis 18, Missouri, USA.

AVACO, Audio Visual Aids Committee of the National Christian Council of Japan: Tokyo, Japan.

CAVE, Centro - Audio - Visual Evangelics (NCC USA): Sao Paulo, Brazil.

BROADCASTING ORGANIZATIONS
Continued from page 16.

EVANGELISTIC BROADCASTING ORGANIZATIONS

THE WORLD COMMITTEE FOR CHRISTIAN BROADCASTING, General Secretaries: The Rev. W. Burton Martin, 156 Fifth Avenue, New York 10., USA. Reverend H. W. von Meyenn, Church R. Center, Evangelisches Pressehaus, Bethel-Bielefeld, Germany. – Publication: The Christian Broadcaster (quarterly, English, German).

CADENA CULTURAL PANAMERICANA

(Panamerican Christian Network).

Officers: Pres.: Mr. W. Dayton Roberts. Secr.: Mr. Paul Pretiz. Treasurer: Mr. Albert Platt. Mgr.: Mr. Robert Remington.
Membership: Consists of evangelical radio and television broadcasters throughout Latin America. The main emphasis in program exchange and development is on the Spanish language although there are prgrs. in Russian, and most of the stations also broadcast in English.

BROADCASTING FOUNDATION OF AMERICA

Broadcasting, Foundation of America, 342 Madison Avenue, New York 17, New York YUkon 6-8844, Basil Thornton, executive director; Chloe Fox, associate executive director; Frank N. Freeman, president; Seymouo N. Siegel, executive vice-president; George E. Probst vice-president. (Non-profit, educational organization sponsoring exchange of cultural radio and television programs between U.S. stations and those abroad).

CBS INTERNATIONAL

A Division of Columbia Broadcasting System, Inc., is pleased to offer to overseas broadcasters equipment produced by the following manufacturing specialists of the electronics industry:

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FOTO-VIDEO LABORATORIES	Television studio equipment
JERROLD ELECTRONICS	Multi-outlet TV distribution equipment for apartments, hotels, schools

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For full details see ECUADOR

GAZETTE

International Journal of the Science of the Press

Editors: K. Baschwitz, Amsterdam, Holland.
S. Frey, Bern, Switzerland.

Publisher: H. E. Stenfert Kroese N. V., Leiden, Holland.

Gazette is published quarterly at an annual subscription of fl. (Dutch guilders) 15,50 post free.

'After the first issue, Gazette improved tremendously, and has continued to do so since . . . Gazette's forte is its everwidening circle of regular correspondents all over the world whose contributions, coupled with Gazette's trilingual character, are making the publication a truly international journal of the science of the press.'

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Internationaler Evangelischer Radiosender
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Arabic, Bulgarian, Czech-Slovak, Danish, Dutch, English, Esperanto, Finnish, French, German, Hebrew, Hungarian, Italian, Norwegian, Polish, Portuguese, Rumanian, Russian, Slovene, Spanish, Swedish.

- It is intended to broadcast full daily programmes (from 6.30 a.m. to midnight), over medium and short wave bands in sufficient power to cover all European countries and beyond.
- Leaders of State Churches and Free Evangelical Churches in 51 nations have given their support to the project.
- The Station will be under the direction of an Interdenominational European Committee.

Details regarding this project are issued in "epi news service" (German, French and Italian editions are also available). For further information and FREE Radio Brochure, write to:

E. P. I. – P. O. Box 392, BERNE 2 (Switzerland).

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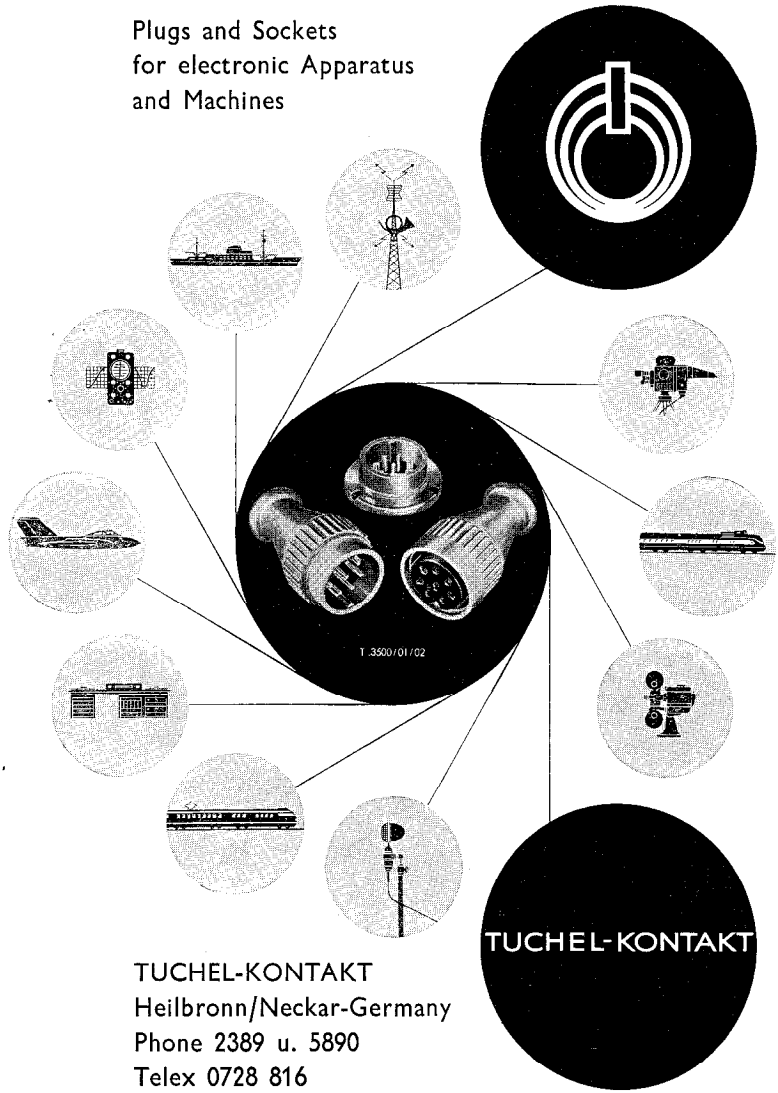


TUCHEL-KONTAKT
Heilbronn/Neckar-Germany
Phone 2389 u. 5890
Telex 0728 816

★ ALBANIA ★

L.T.: GMT+1 h. L.: Albanian. – Revrs.: 25.000.

R. TIRANA (Go.)

ADDR.: Direction Centrale de la Radiodiffusion d'Albanie, Rue Conference de Peza 3, Tirana. – L.P.: Dir. P. Kito.

HOME SCE.: 05.00–07.00, 11.00–15.00, 16.00–22.00.

Tirana 1088 kc/s 275,7 m 50 kW – Korça 1349 kc/s 222 m 0.2 kW 1430 kc/s 210 m 0.5 kW.

N.: 05.30, 14.00, 17.00, 19.00, 21.00. Local N.: 17.13.

FOREIGN SCE.: Tirana.

1088 kc/s 275,7 m 50 kW – 7850 kc/s 38,20 m 3 kW
6900 – 43.49 – 3 – – 9610 – 31.22 – 3 –

On 7850 kc:18.00 Serbo-Croat, 18.30 Albanian. – On 7850, 6910 kc: 19.00 Greek, 19.30 Arabic, 20.00 Italian, 20.30 English, 21.00 French, 21.30 Arabic, 22.00 Albanian, 22.30 Arabic.

ANN.: "This is Radio Tirana". – INT.-SIG.: 7 musical notes played on piano. – V. by letter. –

★ ANDORRA ★

L.T.: GMT + 1 h. – L.: French, Spanish. – Revrs.: 4.000.

RADIO ANDORRA (Pr. Comm.)

ADDR.: Roc des Anelletas, Andorre La Vieille. – L.P.: Dir. Gen.: G. Dahlquist. Dir. Tec.: L. Killmayer. Secr. Adm.: Mlle. R. Caminal. Dir. Prgr.: A. Rossel. Dir. Tec.: P. Cousse.

STATIONS:

998 kc/s 300.6 m 60 kW 5972 kc/s 50.22 m 25 kW 9330 kc/s 32.15 m 25 kW.

W.: 06.00–08.00, 11.00–23.00. Sun.: 09.00–23.00. Prgrs. to Spain, Portugal, France, Switzerland, Italy, N. Africa.

ANN.: F.: "Ici Radio Andorre". Sp.: "Aqui Radio Andorre – Roc de les Anneletes, Andorra la Vieja, Principado de Andorra". – INT.-SIG.: Gong low. Open and close with "Hymne National Andorran" and "Marche des Conseillers Andorrans". – V. by QSL-card or letter. R.p.

PUB.: La Voz de Radio Andorra: Monthly. Bulletin d'Informations: Weekly. Free upon request.

ANDORRADIO (Comm.)

ADDR.: Galeries Meritxell, Andorre la Vieille. – L.P.: Dir. Gen. and Tec.: A. Chalier, E. Puiggros. Dir. Adm.: A. Picart.

STATIONS: 818 kc/s 367 m 100 kW – 3145 kc/s 95.38 m 1 kW exp.

In French, Spanish, English: 11.00–13.00, 18.00–22.00. – INT.-SIG.: Xylophone.

★ AZORES (Portuguese) ★

L.T.: GMT ÷ 2 h. (Su ÷ 1 h.). L.: Portuguese.

EMISSOR REGIONAL DOS ACORES (Go.)

ADDR.: Av. Gaspar Fructuoso, Ponta Delgada. S. Miguel.

L.P.: Dir. Tec.: C. C. L. Araujo.

HOME SCE.: CSA90 1214 kc/s 247.1 m 2 kW – CSA97 4865 kc/s 61.66 m 1 kW: 14.00–15.00, 20.00–24.00. – N.: 14.30, 22.30. –

ANN.: "Aqui Portugal, Ponta Delgada, Emissor Reg. dos Acores da Emissora Nacional". – INT.-SIG.: Chimes. – V. by letter or QSL-card.

EMISSORA DO CLUBE ASAS DO ATLANTICO (Comm.)

ADDR.: Aeroporto de Santa Maria. – L.P.: Dir. Tec.: A. Frazao.

HOME SCE.: D.: 21.00–22.00, 23.00–01.00. Sun. also 13.00–15.00.

CSB81 1574 kc/s 191 m 0.08 kW. – N.: 24.00. – Wrp.: 21.00, 24.00.

ANN.: "Aqui Santa Maria. Fala a Estacao Emissora do Clube Asas do Atlantico". – INT.-SIG.: Opens with music played on a Portuguese string instrument (viola) and a guitar. – V. by letter.

RADIO CLUBE DE ANGRA (Comm.)

ADDR.: Rua Conselheiro Anastacio de Bettencourt, Angra do Heroismo, Ilha Terceiro. – L.P.: Dir. Tec.: J. E. L. Fernandes.

HOME SCE.: 1322 kc/s 226.9 m 0.15 kW. W.: 20.00–23.00. Sun. 12.00 –16.00.

ARMED FORCES RADIO TELEVISION SCE. (see USA)

★ AUSTRIA ★

L.T.: GMT + 1 h. – L.: German. – Revrs.: 1.864.872.

ÖSTERREICHISCHER RUNDFUNK (Gesellschaft m.b.H.)

ADDR.: Österreichischer Rundfunk, Wien IV, Argentinierstr. 30a. – Cable: Rundfunk Wien. – L.P.: Dir. Gen., Adm.: Dr. K. Cejka. Vice-Dir. Gen., Dir. Tec.: Dipl. Ing. W. Füchsl. Dir. Prgr.: Prof. Dr. A. Übelhör. Dir. TV: G. Freund.

STUDIOS: R. Graz: Zusertalgasse 14a, Graz III. – Cable: Radio Graz. P. Goritschnig. – R. Klagenfurt: Sponheimerstr. 13, Klagenfurt. Cable: Radio Klagenfurt. P. Goritschnig. – R. Linz: Obere Donaulände 1, Linz. Cable: Radio Linz. A. Schwetz. – R. Salzburg: Franziskanergasse 5, Salzburg. Cable: Radio Salzburg. Dr. P. Becker. – R. Tirol: Landhaus Neubau, Innsbruck. Cable: Radio Tirol. Dr. J. Scheidle. – R. Vorarlberg: Neues Rathaus, Dornbirn. Cable: Radio Vorarlberg. E. Bohac. – R. Wien: Argentinierstr. 30a, Wien IV. – Cable: Radio Wien. Dr. E. Glaser, H. Hasslinger.

HOME SERVICE

FIRST PROGRAMME: W. 04.30–24.00. Sun. 05.00–24.00. From 22.00 (Sun. 21.30) rel. 2nd prgr. exc. Sat.

M.W.	kc/s	m	kW		kc/s	m	kW
Aldrans I	629	476,9	25	Salzburg I	773	388.0	1
Lauterach I	629	476.9	25	Linz	890	337.1	15
Lienz I	629	476.9	1	Graz I	1394	215.2	25
Klagenfurt I	728	412.1	25	Wien I	1475	203.4	25

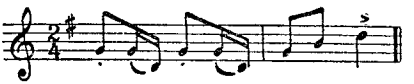
LOW POWER ST. (0.05 kW exc. where indicated):

520 kc/s: Eisenkappel, Feldkirchen, Gmünd*), Landeck*). – **566 kc/s**: Bad Ischl, Braunau, Feistritz (0.1), Greifenburg*), Maria Pfarr, Mühlbach, Radstadt, Zell/See. – **674 kc/s**: Bischofshofen, Bleiburg, Gloggnitz, Neumarkt, Matrei, Radenthein*) (0.1), Ried (0.1). – **692 kc/s**: Admont (0.03), Bad Aussee, Kötschach*) (0.1), Leoben (0.1), Murau*) (0.025), Mürzzuschlag (0.1), Obervellach*), Villach*) (0.1), Zwettl. – **773 kc/s**: Bad St. Leonhard, Hergamor*) (0.1), Lend, Mariazell, Oberdrauburg*), St. Michael/Lungau, Spittal/Drau*) (0.1). – **1052 kc/s**: Krems, Neunkirchen. – **1088 kc/s**: Friesach, Liezen, Völkermarkt, Wolfsberg, Knittelfeld (0.1). – **1124 kc/s**: Bruck/Mur (0.1), Eisenerz (0.1), Hofgastein, Imst, Judenburg (0.1), Kufstein* (0.015), Mayrhofen*) (0.045), Tamsweg. – **1313 kc/s**: Kindberg. – **1457 kc/s**: Amstetten, Schruns, Wr. Neustadt. – **1484 kc/s**: St. Pölten (0.2). – **1493 kc/s**: Kitzbühel*), Mittersill, Reutte*) (0.015), Saalfelden, Schwarzach, Pongau, Windischgarsten*) (0.035), Wörgl*), Bludenz*) (0.03). *) operated by the postal adm.

FM	ch.	mc/s	kW		ch.	mc/s	kW
Stubnerkogel	12	90.63	0.1	Jauerling	24	94.3	50
Patscherkofel	17	92.1	50	Gaisberg	26	94.8	50
Schmittenhöhe	18	92.4	0.02	Schöckl	28	95.4	50
Pyramidenkogel	20	93.0	10	Kahlenberg	29	95.8	50
Pfänder	21	93.3	50	Sonnwendstein	35	97.4	2.5

N.: W. 04.45, 05.45, 06.45, 11.30, 16.00, 19.00, 21.00, 22.00 (Mo.-Fri.), 23.00, 24.00 (Sat.). Sun.: 05.00, 05.45, 07.00, 11.30, 16.00, 19.00, 21.00, 23.00. – "Volkskonzert": Sun. 10.30. – Quiz: Sat. 20.00. – Slovenian (Klagenfurt only): Mo.–Fri. 13.00. Mo. 17.40. Sat. 08.00, 17.15. Sun. 06.30.

ANN.: "Hier ist der Österreichische Rundfunk, Erstes Programm, von Radio... (name of studio) hören Sie...". – INT.-SIG.: Extract from ballet-music from "Rosamunde" by Franz Schubert.



SECOND PRGR.: W. 04.30–24.00. Sun. 05.00–24.00.

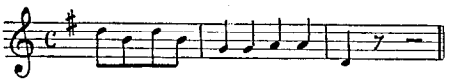
M.W.	kc/s	m	kW		kc/s	m	kW
Aldrans II	520	576.9	10	Wien II	584	513.7	100
Lienz II	520	576.9	10	Dobl	1025	292.7	100
Klagenfurt II	584	513.7	25	Kronstorf	1025	292.7	100
Salzburg II	584	513.7	10	Lauterach II	1025	292.7	10

FM:

Pfänder ch. 9 89.7 mc/s 50 kW Stubnerkogel ch. 23 97.23 mc/s 0.1 kW

N., Wrp.: W. 05.00, 06.00, 07.00, 12.00, 16.00, 18.00, 21.00, 22.00 (Mo. –Fri.), 23.00. Sun.: 05.00, 06.00, 09.00, 12.00, 16.00, 18.00, 21.00, 23.00. Mbg.: Mo., Wed., Fri. 06.10. – Two-way exch. prgr. with Paris and Saarbrücken ("An der schönen blauen Donau"): Sun. 21.30. – Two-way exch. prgr. with RAI ("Hallo Rom, Hallo Wien"): Wed. 22.15 once a month.

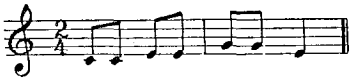
ANN.: "Hier ist der Österreichische Rundfunk, Zweites Programm, von Radio... (name of studio) hören Sie...". – INT.-SIG.: Extract from Opera "Die Zauberflöte" by W. A. Mozart.



THIRD PRGR.: W. 04.30–05.00. D. 05.00–16.55 (light music, advertisements), (rel. 2nd prgr.) 16.55–22.10 (Sat. 16.30–22.10).

FM-ST.	ch.	mc/s	kW		ch.	mc/s	kW
Stubnerkogel III	3	87.9	0.1	Schöckl II	14	91.2	50
Sonnwendstein II	4	88.2	2.5	Pyramidenkgl. II	36	97.8	10
Patscherkofel II	5	88.5	50	Gaisberg II	40	99.0	50
Jauerling II	6	88.8	50	Linz	41	99.3	1
Schmittenhöhe II	6	88.8	0.02	Kahlenberg II	43	99.9	50

N., Wrp.: Sun. 05.00, 06.00, 09.00, 12.00, 16.00. D. 20.00, 22.00. – Two-way exch. prgr. with France ("Seine-Donau") and Gt. Britain ("Thames-Donau"): Mo. 19.30 (New music), Fri. 19.00 ("Famous conductors").
ANN.: "Hier ist der Österreichische Rundfunk, Drittes Programm, von Radio... (name of studio) hören Sie...". – INT.-SIG.: Extract from G-major Symphony with the kettle drum beats by Joseph Haydn.



PUB.: "Radio Österreich", weekly prgr.sched. Four times a year: "Aus dem Programm" – free on request.
SHORT WAVE TRANSMISSIONS

		Prgr.	kc.s	m	kW	
OEI30	Kronstorf	II	5985	50.13	4	07.00–09.00, 13.00–17.00
OEI20	Innsbruck	I	6000	50.00	0.4	04.30–24.00
OEI21	Wien	I	6155	48.74	0.2	04.30–24.00
OEI31	Wien	II	7135	42.05	0.3	09.00–12.55
OEI22	Kronstorf	II	7245	41.41	4	00.00–02.30**, 09.30–12.30
OEI22	Wien	II	7245	41.41	0.3	04.30–08.55, 17.00–23.55
OEI32	Wien	II	9505	31.56	0.3	16.00–18.55
OEI33	Wien	II	9615	31.20	0.3	05.00–06.55
OEI23	Kronstorf	II	9665	31.04	4	19.00–22.00
OEI23	Wien	II	9665	31.04	0.3	07.00–15.55, 22.00–24.00
OEI35	Wien	II	11775	25.48	0.2	17.00–17.55
OEI24	Wien	I	11785	25.46	0.2	04.30–16.55, 18.00–24.00
OEI36	Wien		11935	25.14	0.2	02.30–04.55**
OEI37	Wien	II	17795	16.86	0.03	13.00–15.00, 16.00–18.00
OEI38	Fleckend.	II*	25615	11.71	20	07.00–09.00

* operated by postal administration. ** Special prgr. for abroad.
V. by QSL-card or letter. – PUB.: "Radio Österreich", weekly.

★ BELGIUM ★

L.T.: GMT+1 h. – L.: French, Flemish. – Rcvrs.: 2.000.000.
BELGIAN NATIONAL BROADCASTING SERVICE (Go.)
ADDR.: Institut National Belge de Radiodiffusion, Place Eugene Flagey 18, Bruxelles. Cable: I.N.R. Bruxelles. – L.P.: Fl. Dept.: Dir. Gen.: J.Boon. Dep. Dir. Gen.: R.Brulez. Fr. Dept.: Dir. Gen a.i.: F.Hoosemans. Dep. Dir. Gen. a.i.: H.Masson. Tec. Dept.: Dir. Gen.: F.Mortiaux. Dep. Dir. Gen.: G.Gourski. Dir. Adm.: A. Nossent. Head of Foreign Rel.: M.Swaenepoel.

HOME SERVICE

FRENCH Network:

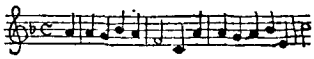
Bruxelles I	(Nat.)	620 kc/s	483.9 m	150 kW
Bruxelles IV	(Reg.)	1124 –	266.9 –	10 – *)
FM Bruxelles		95.4 mc/s		2 –

*) Prgrs. from studios in Mons, Namur, Liège, Arlon.
620 kc/s: W. 05.30–22.00 (Sat. 23.00). Sun. 05.30–23.00. – N., Wrp.: 06.00, 07.00, 08.55, 12.00, 18.30, 21.00, 21.55, Sat. & Sun. 22.55. – Wrp.: 11.30. – Religious Prgr.: Sun. 18.00. – Bel Canto: Sat. 16.10–16.45 followed by Listeners Request. – Symphony: Tues. 19.00 or 19.15.
For Troops: 17.00.
1124 kc/s: 09.00–14.30, 17.00–22.00. – German: W. 16.20–16.50.
FM (rel. 620 kc/s): Sun. 12.00–23.00. Wed., Fri. 12.00–22.00.
FLEMISH Network:

Bruxelles II	(Nat.)	926 kc/s	324.0 m	150 kW
Bruxelles III	(Reg.)	1511 –	198.5 –	20 – **)
FM Bruxelles		95.4 mc/s		2 –

**) Prgrs. from studios in Kortrijk, Ghent, Antwerp, Hasselt.
926 kc/s: W. 05.30–22.00 (Sat. 23.00). Sun. 05.30–23.00. – N., Wrp.: 06.00, 07.00, 08.00, 12.00, 18.00, 21.00, 22.00. – Wrp.: 05.30, 11.30. – Religious Prgr.: Sun. 17.30–18.00. – Symphony: Fri. 19.00 or 19.15. – Bel Canto: Sun. 13.00–14.30.
1511 kc/s: 09.00–13.00, 15.30–22.00.
FM (rel. 926 kc/s): Mo., Tues., Thurs. 12.00–22.00, Sat. 12.00–23.00.
ANN.: F.: "Ici Bruxelles, Radiodiffusion Nationale Belge". – Fl.: "Hier Brussel, de Belgische Nationale Radioomroep". E.: "Here Brussels, the Belgian National Broadcasting Station".
INT.-SIG.: F. Network Nat.: Extract from Grety's famous melody "Ou peut-on être mieux".

Fl. Network Nat.: The first movement of "Beiaardlied" (Extract from Rubens' cantata by Peter Benoit).



V. by QSL-card or letter. – PUB.: "De Radio and Televisieweek" and "Mikro-Magazine-Television" (weekly).

FOREIGN SERVICE

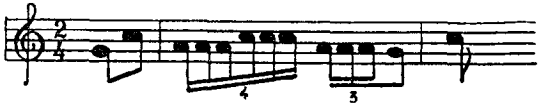
ADDR.: Overseas Service of the BNBS, P.O. Box 26, Bruxelles I. – Cable: I.N.R. Mondial. – L.P.: Dir.: M.Swaenepoel.
STATIONS: ORU, Wavre. ORU3/ORU4=100 kW. ORU5=20 kW. OTC, Leopoldville, Belg. Congo=50 kW.

OTC	1) 9655 kc/s	31.07 m		ORU5	6)15280 kc/s	19.63 m	
ORU3	2) 9705 –	30.91 –		ORU3/4	7)15335 –	19.56 –	
ORU3/5	3) 9745 –	30.78 –		ORU3/4	8)17845 –	16.81 –	
ORU5	4)11720 –	25.60 –		ORU4	9)21510 –	13.94 –	
ORU4	5)11850 –	25.32 –		ORU3/5	10)21730 –	13.80 –	

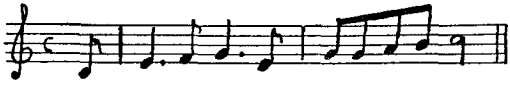
D. PRGR. from 1/11 58 to 28/2 59.

	L.	Freq.	L.	Freq.	Direction	Prgr.
10.00–12.00	F.	8–10	Fl.	9	Co.	
12.15–13.00	F/Fl.	6–9–10			S.Eu., Af., F.East.	a)
13.30–15.00	F/Fl.	8–9–10			Af.	b)
15.00–16.45	F.	9	Fl.	8–10	Af.	b)
17.00–17.45	F/Fl.	7–9–6			Af., No.Am., S.Eu.	a)
18.00–21.00		6–8–7			Af.	c)
21.15–23.00	F/Fl.	3–5–7			Am.(No+So), S.Eu.	d)
23.15–01.00	F/Fl.	1–2–3–5			Af., Am.(No+So)	e)

a) For Missionaries and Seamen. b) Sun. only. c) Sun., Mo., Thurs., Fri., Sat. bilingual; Tues., Wed. Fl. on freq. 7, F. on freq. 6–8. d) For Belgians in the World. e) repeat of 21.15 prgr.
ANN.: F.: "Ici Bruxelles, Service d'ondes courtes de la Radiodiffusion Nationale Belge". – Fl.: "Hier Brussel de kortegolfuitzendingen van de Belgische Nationale Omroep".
STARTING-SIG.: Xylophone.



INT.-SIG.: Chime. First bars of "Vers l'Avenir". – V. by QSL-card.



★ BULGARIA ★

L.T.: GMT + 2 h. – L.: Bulgarian. – Rcvrs.: 570.000.
ADDR.: Bulgarian Broadcasting at the Ministry of Education and Culture, 4 Dragan Zankov Str., Sofia. Cable: Bolgarradio. – L.P.: Chief of Broadc.: V. Ivanov. Dir. Prgr.: V. Nikolov. Dir. Tec.: J. Jerkov. Dir. For. Rel.: T. Komitov.
HOME SERVICE:

	kc/s	m	kW		kc/s	m	kW
Sofia II	593	506	60	Stara Zagora	1223	245	20
Sofia I	827	362.7	100	Pavlovo	1484	202	2
Varna	1124	267	5	Sofia III	7670	39.11	50

03.25–08.37 on 593, 1124, 1223, 1484 kc/s.
08.37–09.55 on 827, 7670 kc/s.
09.55–14.55 on 593, 827, 1124, 1223, 7670 kc/s.
14.55–20.30 on 593, 1484 kc/s.
20.30–22.00 on 593, 1124, 1223, 1484 kc/s.
N.: 03.30, 04.30, 08.30, 10.30, 14.00, 16.00, 18.30, 20.30, 21.45.
Wrp.: 03.40, 10.45, 18.45.
FOREIGN SERVICE:

593 kc/s	506.0 m	60 kW		6070 kc/s	49.42 m	120 kW	
827 –	362.7 –	100 –		7255 –	41.35 –	120 –	
1124 –	267 –	5 –		7670 –	39.11 –	50 –	
1223 –	245 –	20 –		9700 –	30.93 –	120 –	

EUROPEAN AND M. EAST SCE.

Arabic	kc/s	English	
10.00–10.30	6070, 7255, 7670	19.30–20.00	7255, 7670
17.00–17.30	6070, 7255, 7670	21.45–22.15	6070, 7255, 7670
20.00–21.00	7255, 7670	23.00–23.25	9700 (music)
		Esperanto	
		19.00–19.30**)	7255, 7670
Bulgarian		22.30–23.00**)	6070, 7670
16.15–16.30	6070, 7255, 7670	French	
		18.50–19.20	6070
22.15–22.30	7255, 7670	21.15–21.45	6070, 7255, 7670

EUROPEAN AND M. EAST SCE.

German
20.00–20.30 6070
21.00–21.15 6070, 7255, 7670

Greek
06.00–06.30 827, 7670
16.30–17.00 6070, 7255, 7670
19.00–19.30*) 7255, 7670
20.30–21.00 827

Italian
18.30–18.45 6070
21.00–21.30 827

Macedonian
04.30–05.00*) 827, 7670
07.30–08.30**) 827, 7670

Serbo-Croatian
05.00–05.30*) 827, 7670
06.30–07.30**) 827, 7670
18.00–18.30 6070, 7255, 7670
21.30–22.00 827

Spanish[1])
15.15–15.40***) 9700
22.30–22.55°) 9700, 7670
23.30–23.55°°) 9700

Turkish
05.30–06.00 827, 1124, 1223, 7670
17.30–18.00 6070, 7255, 7670
18.30–19.00 7255, 7670
19.30–20.00 6070

English, French, German
10.35–11.05**) 6070, 7255, 7670

No. AMERICAN SCE.:

Bulgarian
00.00–00.30 9700

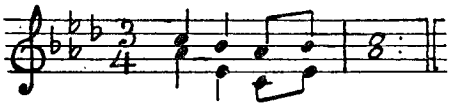
English:
01.00–01.30 9700
04.00–04.30 9700

*) not Sun. **) Sun. only.
***) Sat. only.
[1]) also for S. Am.
°) Tues. only.
°°) Thurs.

English: Mbg.: Thurs.: 19.45, 22.00, 01.20, 04.20. – **Nat. music:** Sun. – **French: Mbg.:** Fri. 19.00. – **Nat. music:** Tues., Sat. – **German: Mbg.:** Sat. 20.15. – **Italian: Mbg.:** Fri. 21.15.

ANN.: Home Sce.: "Govori Sofia" – **Foreign Sce.: E.:** "This is Sofia Bulgaria calling". – **F.:** "Ici Sofia, Radioffusion Bulgare". – **Tu.:** "Burasi Sofia radiosu". – **Gr.:** "Milai i Sofia" – **G.:** "Hier spricht Sofia Bulgarien". – **I.:** "Qui é Radio Sofia". – **Arabic:** "Huna Sofia".

INT.-SIG.: The beginning of a Bulgarian song, which begins with the words "Dear Homeland":



V. by QSL-card or letter. – **PUB.:** Prgr. sched. free on request.

★ CZECHOSLOVAKIA ★

L.T.: GMT + 1 h. – **L.:** Czech., Slovak. – **Rcvrs.:** 3.269.970.

ADDR.: Praha 12, Stalinova 12. **Cable:** Radiopraha. – **L.P.:** Chairman: F. Necásek. Vice-chairman: M. Vrabec. Dir. Gen.: J. Hrebik. Dir. Adm.: V. Ferst. Dir. Tec.: F. Svejkovsky. Dir. For. Rel.: Karol Reif. – Chairman of Slovak Committee for R. and T.V.: J. Vrabec. Dir. Foreign Sce.: B. Svec.

HOME SCE.: Medium Waves.

Name	kc/s	m	kW	Name	kc/s	m	kW
Praha II	272	1102.9	200	Bratislava	1232	243.5	100
Praha I	638	470.2	120	Praha II	1286	233.3	100
Bratislava	701	427.2	100	Praha I	1484	202.2	3
Praha I	953	314.7	100	Praha II	1484	202.2	3
Praha I	953	314.7	30	Bratislava	1484	202.2	3
Bratislava	1097	273.5	150	Praha II	1520	197.3	30

FM.: Praha 66.65 mc/s 1 kW.

PRAHA I: In Czech: 03.30 (Sun. 05.00)–23.00 (Sat. 01.00).

N.: 04.00, 05.00, 06.00, 08.45, 11.30, 15.00, 18.00, 21.00, 22.50. – **Nat. music:** Mo. 07.05, 11.15. Tues. 07.40. Thurs. 19.30. Fri. 11.50. Sat. 07.05.

PRAHA II: In Czech/Slovak: 03.30 (Sun. 05.00)–23.00 (Sat. 01.00).¶ **N.:** 04.00, 05.00, 06.00, 11.30, 16.00, 18.00, 20.00, 21.30, 22.50. – **Nat. music:** Mo. 11.15. Wed. 18.30. Thurs. 14.40, 16.10. Fri. 12.15, 19.40, 21.00. Sat. 05.15, 13.00.

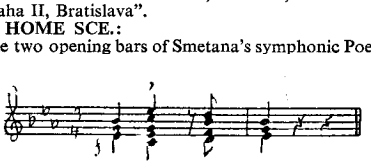
On 1286 kc/s: Bulgarian: Sat. 16.30–17.00. – **German:** W. 15.00–15.15, Sun. 09.00–09.30. – **On 1520 kc/s: Polish:** W. 15.50–16.00.

BRATISLAVA: In Slovak: 04.00 (Sun. 05.00)–23.00. **N.:** 04.00, 05.00, 06.00, 09.00, 11.30, 15.00, 18.00, 21.00, 22.50. – **Hungarian:** W. 05.15–05.30, 12.00–12.30, 16.30–17.00. Sun. 12.30–13.30. – **Ukrainian:** W. 06.10–06.20, 15.10–15.40. Fri. 09.05–09.35. Sun. 14.00–14.30.

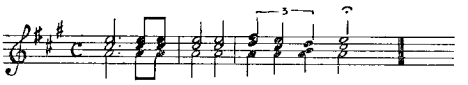
ANN.: HOME SCE.: Radio Praha I, Praha II, Bratislava: "Stanice Praha I, Praha II, Bratislava".

INT.-SIG.: HOME SCE.:

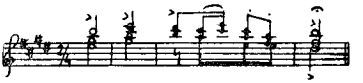
Praha I. The two opening bars of Smetana's symphonic Poem "Vysahrad".



Praha II: Fanfares from a March by V. Dobiás.



Bratislava: Fanfares from a March by B. Urbanec:



FOREIGN SERVICE:

100 kW exc. 1097 kc/s 150 kW. Valid from 20/10 1958 – 15/4 1959.

kc/s	m	kc/s	m	kc/s	m	kc/s	m	kc/s	m
1097	273.5	7235	41.47	9605	31.23	11795	25.43	15285	19.63
1286	233.3	7255	41.35	11725	25.59	11845	25.33	17815	16.84
6025	49.79	9504	31.57	11730	25.58	15125	19.83	21450	13.99
6055	49.55	9550	31.41						
6170	48.62	9590	31.28	11745	25.54	15185	19.76	21685	13.83

EUROPEAN SERVICE:

Czech/Slovak kc/s
15.30–15.55 } 7235, 9550, 11730
15.00–15.55* } 11795, 15125
19.30–20.00 6025, 7235, 9590
* Sun.

English
12.15–12.45 9504, 11725, 15285
19.00–19.30 6170, 9550
21.00–21.30 } 6025, 6055, 7235, 9550, 9590
22.00–22.30 1286
23.10–23.40 1097

French:
11.15–11.45 9504, 11725, 15285
17.30–18.00 6025, 7235, 11730
20.30–21.00 1286
21.30–22.00 1286

German
17.15–18.00 1286
20.00–20.30 1286, 6055, 9550
23.00–23.15 1286

German for Austria
10.30–11.00 9504, 11725, 15285
18.30–19.00 6170, 9550
19.00–19.30 1286
20.30–21.00 6025, 7235, 9590

Greek
17.30–18.00 9550, 11795
20.30–21.00 6055, 9550

Italian
17.00–17.30 9550, 11795
18.30–19.00 1286
21.30–22.00 6055, 9550

Portuguese
22.00–22.30 6025, 11725, 15285

Serbo/Croat
19.00–19.30 } 6025, 7235, 9550
20.00–20.30 }

Spanish
18.00–18.25 } 6025, 7235, 9550, 11730, 11795
22.00–22.30 6055, 9550
23.15–23.45 1286

Swedish
10.00–10.30 9504, 11725, 15285
16.30–17.00 9550, 11795
18.30–19.00 6025, 7235, 9590

OVERSEAS SERVICE TO NORTH AMERICA

English kc/s
00.30–01.00 9550, 11745
03.00–04.00 7255, 9550, 11745
05.00–05.30 7255, 9550, 11745

Czech/Slovak
23.30–24.00 9550, 11745
01.00–02.00 9550, 11745
02.30–03.00 7255, 9550, 11745
04.00–04.30 7255, 9550, 11745

Spanish (also Mexico)
23.00–23.30 9550, 11745
00.00–00.30 9550, 11745
02.00–02.25 9550, 11745
04.30–05.00 7255, 9550, 11745

TO SOUTH AMERICA

English kc/s
00.30–01.00 11725, 11845, 15285
03.00–04.00 9605, 11725
05.00–05.30 9605, 11725

Czech/Slovak
23.30–24.00 11725, 11845, 15285
01.00–02.00 11725, 11845, 15285
02.30–03.00 9605, 11725
04.00–04.30 9605, 11725

Spanish
23.00–23.30 11725, 15285
00.00–00.30 11725, 11845, 15285
02.00–02.25 11725, 11845, 15285
04.30–05.00 9605, 11725

Portuguese (to Brazil)
22.00–22.30 11725, 15285

TO PACIFIC kc/s

English
08.30–09.30 11725, 15185, 21450

TO M. EAST

Arabic kc/s
16.00–17.25 11730, 15125, 18715

Freq. are subject to minor changes with seasonal variations or to avoid interference.

PRGRS. FOR RADIOAMATEURS:

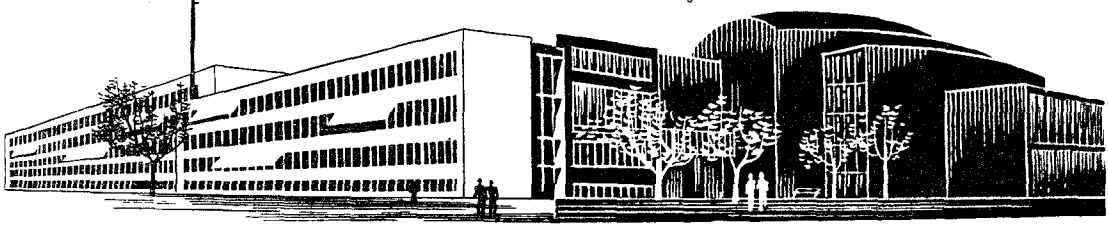
European Service: English: First Mo. of every month at 19.00. **German:** First Tues. at 17.15, and fourth Thurs. of every month for Austria at 20.30 – **Overseas Service: English:** First and third Thurs./Fri. night at 00.30 and 05.00 for No. and So. Am. repeated the following day at 03.00 for No. and So. Am. and at 08.30 for New Zealand, Australia, Japan. In the first prgr. of every month sunspot predictions as supplied by the Ondrejov Observatory are given.

ANN.: English: "This is Prague". – **Arabic:** "Huna Pragh". – **French:** "Ici Prague, Tchécoslovaquie". – **Italian:** "Qui Praga, Cecoslovacchia". – **German:** "Hier spricht Prag". – **Greek:** "Edo Praga". – **Yugoslavian:** "Govori Prag". – **Spanish:** "Aqui Radio Praga, Checoslovaquia". – **Swedish:** "Här är Prag". – **Czech/Slovak:** "Posloucháte Prahu, vysíláni. Csrozhlasu pro krajany". – **INT.-SIG.:** The opening bars of the song "Forward Left" by J. Seidl.

Listen to

THE VOICE OF DENMARK

The Danish short wave transmissions are beamed to North America, South America, Ajrica, India and the Far East



To North America on 31.51 m—9.520 kc/s.
Daily 1.30—2.30 and 3.00—4.00 GMT. E.S.T.: 8.30—9.30 and 10.00—11.00 p. m.
DX-bulletin: Wednesdays 2.20—2.30 a. m. and 3.50—4.00 a. m. GMT.

To South America on 31.51 m—9.520 kc/s.
Mondays, Wednesdays and Fridays 23.00—24.00 GMT.

To Far East, Australia and New Zealand on 19.78 m—15.165 kc/s.
Tuesdays, Thursdays and Saturdays 9.00—10.00 a. m. GMT.
DX-bulletin: Thursdays 9.50—10.00 a. m. GMT.

To South Asia on 19.78 m—15.165 kc/s.
Tuesdays, Thursdays and Saturdays 14.00—15.00 GMT.
DX-bulletin: Thursdays 14.50—15.00 GMT.

To Africa and the Near East on 19.78 m—15.165 kc/s.
Tuesdays and Fridays 16.40—17.40 GMT.

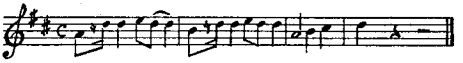
For Listeners in Near East 19.78 m—15.165 kc/s
Daily 17.40—21.15 GMT. rebroadcast of Danish home service.

Special broadcasts to Danish ships daily 10.00–10.30 GMT. Far East 19.78 m–15.165 kc/s, 15.00–15.30 GMT. South Asia 19.78 m—15.165 kc/s, 16.00–16.30 GMT. Mediterranean and Middle East 19.78 m—15.165 kc/s, 00.00–00.30 GMT. South America 31.51 m—9.520 kc/s, and 01.00–01.30 GMT. North America 31.51 m—9.520 kc/s.

Listeners all over the world are invited to send reception reports together with their criticisms and programme suggestions to

the SHORTWAVE DEPARTMENT, RADIO HOUSE, COPENHAGEN V., DENMARK

Answer by letter or QSL-card



V. by QSL-card or letter. – **PUB.**: Weekly: "Ceskoslovensky rozhlas a televise". Monthly: "Rozhlasova a televisni práce". Weekly: Prgr.-sched. in English and Russian. Foreign Sce. sched. free on request.

> **Adv.:**
> **Message to Listeners:** Listeners are asked to send us their comments and programme suggestions and reports on reception conditions. Radio Prague is carrying out a continuous reception survey, and welcomes the cooperation of listeners throughout the world.

★ DENMARK ★

L.T.: GMT+1 h. – **L.:** Danish. – **Rcvrs: TV** 164042 – **Radio** 1.448.854.

DANISH STATE RADIO (Go.)

ADDR.: The Danish State Radio, Radiohuset, Rosenørnsallé 22, Copenhagen. – **Cable:** "Statsradio".

L.P.: Dir. Gen.: F.E.Jensen. Dir. Adm.: J.Jannik. Dir. Secretariate: Ejnar Jensen. Dir. Music: Vagn Kappel. Dir. Talks: Hans Sølvhøj. Dir. Drama: Felix Nørgaard. Dir. Outside Broadcasts: Aksel Dahlerup. Dir. Inf. and Shortwave: P.Berg. Dir. TV: J.Fr.Lawaetz. Dir. Tec.: Fr.Heegaard. Dir. N.: N.Grunnet.

HOME SERVICE:

1st PRGR.: W.: 05.00–09.40, 10.50–22.00. Sun.: 07.00–14.00, 14.25–22.00.

	kc/s	m	kW		kc/s	m	kW
Kalundborg I	245	1224	150	København I	1484	202	2[1])
København II	1430	210	10	Herstedvester	15165	19.78	50[2])

[1]) 17.00–22.00 only. [2]) 17.40–21.15 only.

N.: 05.00(W), 06.00(W), 07.00, 11.30, 17.45, 21.00. – **Wrp.:** 07.45, 10.55, 16.40. – **L.L.: French:** Sun. 07.20–07.40. **English:** Mo., Thurs. 17.20–17.40, Tues. 17.00–17.20. **German:** Tues.: 21.35–22.00, Thurs. 21.15–21.35. **Spanish:** Mo., Thurs. 17.00–17.20. **Swedish:** Every second Sun. 07.40–08.00. – **Request Prgr.:** Sun. 11.00–13.00. Tues. 18.15–19.15.

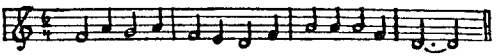
2nd PRGR.: W. 17.00–22.00. Sun. 08.00–11.00, 17.00–22.00.

	kc/s	m	kW		kc/s	m	kW
Kalundborg II	1061	283	60	Aalborg	1484	202	0.25
København II	1430	210	10	Tønder	1484	202	0.25
Skive	1430	210	70	Esbjerg	1594	188	2

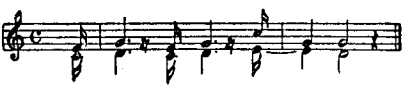
FM:	Prgr.1 mc/s	Prgr.2 mc/s	kW		Prgr.1 mc/s	Prgr.2 mc/s	kW
København	90.8	96.5	26	Vestjylland	90.2	99.2	60
Aarhus	91.7	95.9	30	Bornholm	94.5	99.3	30
Aalborg	93.3	88.1	30	Sønderjylland	95.1	99.9	60

Projected St.: 1/10 1959 Næstved 94.8 mc/s 99.6 mc/s 60 kW.

ANN.: "Danmarks Radio Program I (Program II)". – **INT.-SIG.:** Prgr. I: From an old Danish folksong: D. at 11.00 and 19.00: The chimes of the Town Hall in Copenhagen.



Prgr. II.



FOREIGN SERVICE: (DS = Danish Ships).

	kc/s	m	kW		kc/s	m	kW		kc/s	m	kW
OZF3	6060	49.50	50	OZF5	9520	31.51	50	OZF8	15180	19.76	50
OZF4	7260	41.32	50	OZF7	15165	19.78	50	OZF9	15320	19.58	50

00.00–00.30	D.	on	9520 kc/s	DS (S.Am.)
01.00–01.30	D.	on	9520 –	DS (N.Am.)
01.30–02.30	D.	on	9520 –	N.Am.
03.00–04.00	D.	on	9520 –	N.Am.
09.00–10.00	Tues., Thurs., Sat.	on	15165 –	FE, Au, NZ[1])
10.00–10.30	D.	on	15165 –	DS (FE)
14.00–15.00	Tues., Thurs., Sat.	on	15165 –	S.As.
15.00–15.30	D.	on	15165 –	DS (S.As.)
16.00–16.30	D.	on	15165 –	DS (ME)
16.40–17.40	Tues., Fri.	on	15165 –	Af., ME
17.40–21.15	D. (Home Sce.)	on	15165 –	NE
23.00–24.00	Mo., Wed., Fri.	on	9520 –	S.Am[2]).

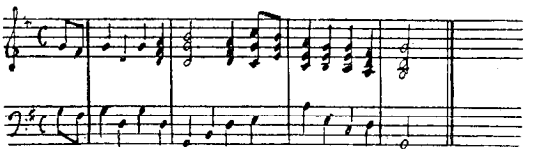
[1]) Last 15 minutes in English. [2]) Every second Wed. Mailbag.

Prgrs. in **Danish** consists of **N., Music, Songs, Talks and Features** about life in Denmark and **Reportages.** – On all weekdays the broadcast to U.S. and Canada consists of a 30 minute prgr. in **Danish** and 30 minute prgr. in **English.**

A sketch of a weeks prgr. in **Danish** and in **English: Mo.: N.**, Literary, Music, D. Views on the N., Classical Da. Music. – **Tues.: N.**, Reportage, Entertainment. – **Wed.: N.**, Entertainment, Actualities, Da. Folk Music. **DX-Bulletin:** 02.20, 03.50. – **Thurs.: N.**, Feature, Quiz, Concert. **DX-Bulletin** 09.50, 14.50. – **Fri.: N.**, Talk Da., Views on the N., Anything-anybody. – **Sat.: N.**, Light Prgr., Saturday Night Club. – **Sun.:** Church Service, Da. Music, Reportage. – The Saturday Night Club wil also contain letters from listeners and musical requests. – On Wed. 23.00–23.30 (N. and Music) and on Fri. 23.15–23.30 a special prgr. (Feature and Music) **in Spanish** (To South America).

A **special DX-Bulletin:** Tues. at the end of the two No.Am. prgr.

ANN.: "Danmarks Kortbølgesender". – "You are tuned to the Voice of Denmark". – Every transm. begins with the chimes of the Town Hall, followed by the National Anthem. – **INT.-SIG.:** The first movement of "Som en rejselysten Flaade" composed by Carl Nielsen:



Message to Listeners: The Danish State Radio is anxious to receive reports on prgr. and on reception conditions from all parts of the world. It makes every endeavour to get into touch with countrymen and listeners in countries abroad with a view to provide the best possible short wave service. – **V.** by letter or QSL-card.

R. MERCUR (Comm.) **Addr.:** Maltegaardsvej 24. Gentofte. – **L.P.:** Mgr.: I. Fogh, P. Jansen.

Station: 89.5 mc/s 3 kW: 17.00–23.00. – **V.** by letter.

★ FAEROE ISLANDS (Danish Territory) ★

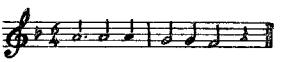
L.T.: GMT. – **L.:** Faroese. – **Rcvrs.:** 5000.

ADDR.: Utvarp Föroya, Tórshavn. – **L.P.:** Mgr.: A. Tórgard.

HOME SCE.: 1367 kc/s 219 m 5 kW: 12.20–12.45, 18.30–19.45.

Prgr. consists of Wrp., N. from the Faroes, foreign N., music. In the evening prgr. also lectures.

ANN.: "Faroe Radio – Utvarp Föroya". – **INT.-SIG.:**



★ FINLAND ★

L.T.: GMT+2 h. – **L.:** Finnish, Swedish. – **Rcvrs.:** 1.127.260.

OY YLEISRADIO AB (Go.)

ADDR.: Unionkatu 16, Helsinki. – **Cable:** "Yleisradio". – **L.P.:** Dir. Gen.: E.Sundström. Dir. Adm. and Dept. Dir. Gen.: O.Toivonen. Dir. Finnish Prgr.: J.Koskiluoma. Dir. Swedish Prgr.: C.Schildt. Dir. Tec.: J.Rissanen. TV-Prgr.: Vilhelm Zilliacus.

HOME SERVICE

FINNISH NETWORK: W.: 04.30–06.10, 08.50–12.10, 15.00–21.00. Sun. 05.45–21.00.

L-M Waves:	kc/s	m	kW		kc/s	m	kW
Helsinki II	1484	202	1	Ylivieska	836	359	10
Pori	1484	202	1	Kuopio	755	397	20
Turku II	1484	202	0.2	Joensuu	520	577	1
Tampere	1421	211.2	1	Oulu	433	693	10
Helsinki III	845	355	0.2	Lahti	254	1181	200

Short Wave: Pori OIX7 6120 kc/s 49.02 m 15 kW.

FM:	mc/s	kW		mc/s	kW		mc/s	kW
Kokkola	99.7	10	Vaasa I	95.2	25	Helsinki I	91.9	40
Kajaani	99.4	40	Iisalmi	94.9	0.7	Kuopio	91.6	25
Ähtäri	98.5	40	Kristiina I	94.6	10	Imatra	91.0	15
Pori I	97.3	3	Turku I	94.3	25	Tampere II	90.7	0.7
Rovaniemi	96.7	10	Ylivieska	94.0	10	Oulu	90.4	15
Rauma	96.4	0.1	Tampere I	93.7	10	Koli	90.1	15
Kotka	96.1	0.3	Tammisaari I	93.1	3	Forssa	89.2	0.1
Savonlinna	95.8	10	Kemi	92.8	10	Mikkeli	88.9	10
Lahti	95.5	15	Jyväskylä	92.2	10	Taivalkoski	88.3	30

The FM-stations broadcast the Finnish main prgr. and in addition music prgr. on weekdays at 14.00–15.00.

N., Wrp.: 04.30, 06.00, 10.30, 16.55, 17.00, 20.00. – **L.L.: French:** Tues. 15.40–16.00. – **Mbg.:** Mo. 15.40.

BILINGUAL NETWORK: (Finnish & Swedish):
W.: 04.30–06.10, 08.50–12.10, 15.00–21.00. Sun. 05.45–21.00.

M. W.	kHz	m	kW	L. W.	kHz	m	kW
Turku I	962	312	100	Pietarsaari	1484	202	1
Helsinki I	557	539	100	Tammisaari	1484	202	0.2
Vaasa	1241	242	25				

FM-stations.	mHz	kW		mHz	kW
Pori II	99.4	3	Vaasa II	93.1	25
Turku II	98.2	25	Kristiina II	90.1	10
Pietarsaari	97.6	10	Tammisaari II	89.5	3
Helsinki II	94.0	40			

Swedish Prgr.: W.: 04.40–04.50, 05.30–05.45, 06.10–06.20, 10.40–10.50, 17.15–17.30, 20,10–20.20, Sun. 06.40–07.05, 10.40–10.50, 11.00–12.45, 17.15–17.30, 20.10–20.20. – Additional Swedish Prgr.: 11.10–12.10 (Tues., Thurs,), 14.45–15.00 (Mo., Fri,), 16.00–17.00 (Mo., Wed., Fri.) 17.30–18.30 (Tues., Thurs., Sat.), 20.20–21.00 (Mo., Fri.), 20.30–20.40. – **N., Wrp.:** 04.40, 06.10, 10.40, 17.15, 20.10. – **L.L.: Finnish:** Sun. 12.20. – **Mbg.:** Mo. 16.45.

FOREIGN SERVICE

Pori OIX2 9555 kc/s 31.40 m 15 kW OIX5 17800 kc/s 16.85 m 10 kW
OIX4 15190 – 19.75 – 100 –

To Europe: On 6120 kc/s.: 09.00–10.50, 16.30–18.00. On 15190/17800 kc/s: 16.30–18.00. Prgr. in Finnish and Swedish. **N. in Finnish:** D. 17.00. Daily Mirror 17.10. **N. in Swedish:** Sun. 19.15. Prgr. for seamen Sun. 16.30–17.30.

To No. Am.: Wintertime 23/9–21/3. On 15190/17800 kc/s: 12.00–13.30. On 9555 kc/s: 12.00–13.00.

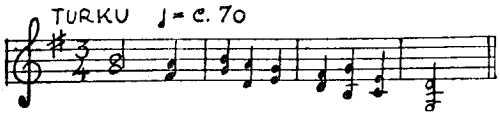
Summertime 21/3–23/9. On 15190/17800 kc/s: 21.00–22.30. Same Prgr. as to Europe.

ANN.: Fi.: "Suomen Yleisradio" followed by prgr. announcement (all stations). **Fi. and Sw.:** "Suomen Yleisradio, Finlands Rundradio" (Helsinki, Turku, Vaasa, and Pietarsaari).

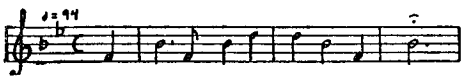
INT.-SIG.: Every weekday at 08.45: Normal-a.

Lahti and Helsinki: The int.-sig. is based on an old Finnish melody, the "Kantede melody".

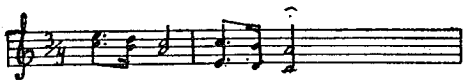
Turku: A fragment of "Ergo plebs finnonica", the hymn of St. Henrik.



Vaasa: The first notes of "Vasa March" by Karl Collan.



Kuopio: The first notes of a well-known song about the beauty of the lake Tallavesi:



V. by QSL-card.

★ FRANCE ★

L.T.: GMT+1 h. – **L.:** French. – **Rcvrs.:** 10.497.172.

RADIODIFFUSION-TELEVISION FRANÇAISE (Go.)

ADDR.: 107, rue de Grenelle, Paris 7ème. – **Cable:** Radiodif, Paris.

The Regional Services: 32–34 rue Ulyssee-Gayon, Bordeaux – 36, Bld. de la Liberté, Lille – 6, Bld. V. Hugo, Limoges – 20, Quai Gailleton, Lyon – 2, Allée Ray Grassi, Parc Chanot, Marseille – 6, Av. Hippolyte Maringer, Nancy – 9, Av. Janvier, Rennes – 2, Av. de la Marseillaise, Strasbourg – 78, bis Allées Jean-Jaurès, Toulouse.

L.P.: The Central Services: Président du Conseil Supérieur: M. H. Torres. Dir. Général: M. Chr. Chavanon. Chef de l'Inspection Générale: M. Daumard. Chef des Services de la Direction Générale: M. Bonami. Directeur des Services Généraux: M. Lenoble. Directeur des Services Techniques: M. Leschi. Chef du Service de l'Exploitation (radio-télévision): M. Mercier. Directeur des Services Artistiques: M. Gilson. Directeur des Programmes de Télévision: M. D'Arcy. Directeur des Informations: M. Terrenoire. Directeur des Emissions sur ondes courtes: M. Thibault. Directeur des Echanges Internationaux: M. Robida. Directeur de France I – Paris Inter: Mme. Mella. Directeur de France II – Régional: M. Brechignac. Directeur de France III – National: M. Barraud. Directeur du Club d'Essai et du Centre d'Etudes Radio-Télévision: M. Tardieu.

The Regional Services (Regional Directors): Bordeaux: M. Dieuaide. **Lille:** M. Lafond. **Limoges:** M. Zamponi. **Lyon:** M. Wadin. **Marseille:** M. Besse. **Nancy:** M. Villatte. **Rennes:** M. Favennec. **Strasbourg:** M. Caze. **Toulouse:** M. Faget.

HOME SERVICE

NETWORK A – FRANCE I – PARIS INTER
Long & Medium Waves:

	kc/s	m	kW		kc/s	m	kW
Allouis	164	1829	250/500*	Nantes II	1493	201	1
Paris III	584	514	1	Strasb. III	1493	201	0.05
Grenoble II	1484	202	0.05	Toulouse III	1493	201	1
Montpell. II	1484	202	0.2	Nice I	1554	193	60
Perpignan	1484	202	1	Nimes I	1594	188	1
Brest III	1493	201	1	Toulon	1594	188	0.05
Marseille III	1493	201	1	* at 18.15–23.00 500 kW			

FM: Luttange I 93.3 mc/s 12 kW.

D. PRGR.: On 164 kc/s: 24 h. exc. Fri. 03.18–05.14. Other tr. D. 05.14–23.00.

N.: W.: 05.15, 06.15, 09.15, 10.15, 11.15, 13.15, 14.15, 15.15, 16.00, 17.15, 18.15, 22.15. Sun.: 05.15, 06.15, 07.15, 12.00, 13.15, 14.15 15.15, 16.15, 17.15, 18.15, 22.25. **D.:** 00.15, 01.15, 02.15, 03.15, 04.15. **"Paris Vous Parle": D.** 18.15. – **"Bonsoir l'Europe... Ici Paris":** Sat. 21.00–23.00.

NETWORK B – FRANCE II – REGIONALE
Medium Waves:

	kc/s	m	kW		kc/s	m	kW
Lyon I	602	498	100	Bordeaux I	1205	249	100
Rennes I	674	445	150	Lille I	1376	218	150
Marseille I	710	422	150	Brest II	1403	214	20
Limoges I	791	379	100	Montpell. I	1403	214	10
Nancy I	836	359	100/150	Nice II	1403	214	20
Paris I	863	348	150	Rouen	1403	214	20
Toulouse I	944	318	100	Bayonne	1493	201	1
Strasb. I	1160	259	100/150				

FM: Caen II 91.5 mc/s 12 kW – Bourges I 93.5 mc/s 12 kW – Dijon I 95.8 mc/s 2 kW.

D. PRGR.: Mo., Tues., Wed., Fri.: 05.43–08.01, 08.01–10.29 (836/863 kc/s only), 10.29–13.00, 16.58–21.45. Thurs., Sat.: 05.43–08.01, 08.01–10.29 (836/863 kc/s only), 10.29–21.45(Sat. 22.00). Sun. 05.58–22.00.

N.: 07.00, 19.00, 21.00(W), 21.43(W), 21.58(Sun.). – **"Disque des Auditeurs":** Sun. 06.20–06.50. – **"Ici New York":** Sun. 17.30. – The news at 07.00 is relayed on 7160/9585 kc/s, and the news at 19.00 on 9755/9675/11900 kc/s. W. 10.30 - 11.00 **Arabic** (relayed on 9550 kc/s).

NETWORK C – FRANCE III – NATIONALE
Medium Waves:

	kc/s	m	kW		kc/s	m	kW
Bordeaux II	1070	280	20	Clerm.-Ferr.	1349	222	20
Marseille II	1070	280	20	Grenoble I	1349	222	20
Paris II	1070	280	100	Limoges II	1349	222	20
Brest I	1241	242	20	Nantes I	1349	222	10
Lille II	1241	242	20	Toulouse II	1349	222	20
Lyon II	1241	242	20	Annemasse	1484	202	1
Nancy II	1241	242	20	Besançon	1484	202	0.18
Nice III	1241	242	20	Caen	1484	202	0.05
Pau	1241	242	20	Dijon	1484	202	1
Rennes II	1241	242	20	Poitiers	1484	202	1
Strasbourg II	1277	235	100	Saint-Brieuc	1484	202	0.05

FM:	mc/s	kW		mc/s	kW
Caen III	87.8	12	Toulouse	91.5	0.25
Pic du Midi	87.9	2	Strasbourg II	95.0	2
Bourges II	89.4	12	Paris	96.1	5
Luttange II	89.7	12	Nancy	96.9	0.25
Mulhouse	92.1	12	Bordeaux	98.1	2
Lille	92.2	2	Marseille (Etoile)	95.4	12
Mont-Pilat	92.7	12	Dijon II	88.0	2

D. PRGR.: 05.00–23.00.

N.: 08.00, 11.00, 22.53. – **"Ici New York":** Mo.–Fri. 21.50. – **The High Mass** Sun. 09.00–10.00 is relayed on 7240 kc/s.

D. 05.00 - 05.30 **Kabyle**; D. 05.30 - 06.00 **Arabic.**

FM NETWORK:	mc/s	kW		mc/s	kW
Metz II	89.7	12	Caen	95.6	12
Toulouse	91.5	0.25	Paris	96.1	5
Mulhouse	92.1	12	Nancy-Vandoeuvre	96.9	0.25
Lille	92.2	2	Bordeaux II	98.1	2
Strasbourg	95.0	2			

D. PRGR.: Mo.–Fri. 16.00–22.10. Sat. 12.05–23.00. Sun. 16.45–24.00. Other times relay of France III exc. Caen.

SPECIAL BROADCASTS:
Paris IV 962 kc/s 312.0 m 5 kW.

COMPAGNIE FRANCAISE THOMSON – HOUSTON

FRENCH NETWORK OF CFTH BROADCAST TRANSMITTERS

ÉMETTEURS A ONDES MOYENNES

Noms des Stations Names of stations	Puissance installée (kW) Power installed by CFTH	Type (V: install. Vapodyne)	Noms des Stations Names of stations	Puissance installée (kW) Power installed by CFTH	Type (V: install. Vapodyne)
Bordeaux-Néac II.....	20	1392	Marseille-Réaltort I...	135	721 (V)
Brest-Quimerc'h I.....	20	1392 (V)	Marseille-Réaltort II ..	20	1392
Brest-Quimerc'h II....	20	1392 (V)	Montpellier-La Blanq. I	10	1308
Clermont-Ennezat.....	20 × 2	1392	Nancy-Nomény I.....	100 × 2	755 (V)
Grenoble-Ville I.....	20	LR (V)	Nancy-Nomény II....	20	1392 (V)
Lille-Camphin II.....	20	1392	Nantes-Montbert I....	10	1308
Limoges-Nieul I.....	120	1395	Nice-La Brague III....	20	1392
Limoges-Nieul II.....	20	1392	Paris-Villebon II.....	100	755 (V)
Louvetot.....	20	1392	Paris-Romainville	10	1308
Lyon-Tramoyes I.....	120	1395	Strasbourg-Sélestat I ..	100 × 2	755 (V)
Lyon-Tramoyes II....	20	LR (V)	Strasbourg-Sélestat II..	100	755 (V)

NB. The only transmitters mentioned are these with a power higher than 5 kW. As a matter of fact, the secundary of regional stations of lower power are often moved by the R.T.F. Administration (Radio diffusion – Television Française) and it is no use to locate them. The principal CFTH stations which belong to this category are the following:

— Caen — Lille-Camphin I — Perpignan — Saint-Brieuc
— Grenoble-Ville I — Nantes-Montbert I — Poitiers — Strasbourg-Sélestat III

ÉMETTEURS A ONDES LONGUES (LONG WAVE TRANSMITTERS) ★ ÉMETTEURS A ONDES COURTES (SHORT WAVE TRANSMITTERS)

Nom de la Station	Puissance installée par CFTH (kW)	Type (V: install. Vapodyne)	Noms des Stations	Puissance installée par CFTH (kW)	Type (V: install. Vapodyne)
Centre d'Allouis.....	20	—	Centres d'Allouis et d'Issoudun.....	600	6 chaînes HF 4 chaînes BF

NB. The power of Allouis Center transmitte varies according to the frequency from 80 to 130 kW Such Center have 13 transmitters (100 kW) in operation.

ÉMETTEURS A MODULATION DE FRÉQUENCE (FREQUENCY MODULATION TRANSMITTERS)

Noms des stations Names of stations	Nombre d'Émetteurs Number of transmitters	Puissance installée par CFTH (kW)	Type CFTH (V: install. Vapodyne)
Caen.....	3	12	TH. R. 920 (V)
Luttange.....	2	12	TH. R. 920 (V)
Marseille.....	1	12	TH. R. 920 (V)
Lyon (Mt Pilat).....	1	12	TH. R. 920 (V)
Paris.....	4	12	TH. R. 920 (V)

COMPAGNIE FRANÇAISE THOMSON-HOUSTON - GROUPE ÉLECTRONIQUE - 173, BD. HAUSSMANN, PARIS-8e

ÉMETTEURS DE RADIODIFFUSION UNION FRANÇAISE ET ÉTRANGER

CFTH BROADCAST TRANSMITTERS FRENCH OVERSEAS TERRITORIES and ABROAD

Noms des Stations	Ondes	Puissance installée par CFTH (kW)	Type (V: Installation Vapodyne)
A.C.F.L. – New York (USA)	courtes	50 × 4	TH. R. 775 (V)
Alger III (Algérie)	courtes	10 × 2	TH. R. 1308
Andorradio (Andorra)	moyennes	100	TH. R. 755 (V)
Barcelone (Espagne)	moyennes	25 × 2	TH. R. 1392
Constantine I (Algérie)	moyennes	20	TH. R. 1392 (V)
Constantine II (Algérie)	moyennes	20	TH. R. 1392 (V)
Casablanca (Maroc)	F. M.	250 W	TH. R. 914
Dakar-Rufisque (AOF)	courtes	25 × 2	TH. R. 835 (V)
Dakar-Rufisque (AOF)	courtes	25	TH. R. 1038
Felsberg "Europe No. 1" (Allemagne)	longues	400	TH. R. 855 (V)
Heusweiller (Allemagne)	moyennes	100	TH. R. 755 (V)
Heusweiller (Allemagne)	moyennes	25	TH. R. 1392
Koper (Yougoslavie)	moyennes	6	TH. R. 817
Léopoldville (Congo Belge)	courtes	50	TH. R. 775 (V)
Ljubljana (Yougoslavie)	moyennes	135	TH. R. 721 (V)
Meknès-Sebaa-Aïoun (Maroc)	moyennes	140 × 2	TH. R. 721 (V)
Meknès-Sebaa-Aïoun (Maroc)	moyennes	20 × 2	TH. R. 1392
Meknès-Sebaa-Aïoun (Maroc)	moyennes	10	TH. R. 1308
Monte-Carlo (Monaco)	moyennes	200	TH. R. 856 (V)
Monte-Carlo (Monaco)	moyennes	200	TH. R. 1395 (V)
Monte-Carlo (Monaco)	courtes	30 × 2	TH. R. 1038
Motala (Suède)	longues	600	TH. R. 877 (V)
Oran I et II (Algérie)	moyennes	20 × 2	TH. R. 1392
Oran III et IV (Algérie)	moyennes	20 × 2	TH. R. 1392
Ouled-Fayet (Algérie)	courtes	50 × 4	TH. R. 775 (V)
Pristina (Yougoslavie)	moyennes	25	TH. R. 1392
Rabat I (Maroc)	moyennes	20	TH. R. 1392
Saigon I (Indochine)	courtes	25 × 2	TH. R. 1038
Saigon II (Indochine)	courtes	5	TH. R. 818
Sarajevo (Yougoslavie)	moyennes	25	TH. R. 1392
Sarajevo (Yougoslavie)	moyennes	100	TH. R. 755 (V)
Skoplje (Yougoslavie)	moyennes	25	TH. R. 1392
Tananarive (Madagascar)	courtes	5	TH. R. 818
Tel-Aviv (Israël)	moyennes	100 × 2	TH. R. 755 (V)
Tel-Aviv (Israël)	courtes	100	TH. R. 875 (V)
Titograd (Yougoslavie)	moyennes	25	TH. R. 1392
Tunis (Tunisie)	moyennes	20	TH. R. 1392
Zagreb (Yougoslavie)	moyennes	135	TH. R. 721 (V)

COMPAGNIE FRANÇAISE THOMSON-HOUSTON - GROUPE ÉLECTRONIQUE - 173, BD. HAUSSMANN, PARIS-8e

D. PRGR.: "Culture Française": Sun. 08.00–11.00. Sat. 12.30–16.00. Sun. 06.45–08.00 **Arabic and Kabyl.** W. 10.30–11.00 **Arabic.**

ANNOUNCEMENTS:

France I, France II, France III: At opening and close down: "La Marseillaise". – **General announcements:** "Ici Paris, Radiodiffusion-Télévision Française – (Prgr. France I, France II or France III)". – **Bordeaux:** "Ici Bordeaux, Radiodiffusion-Télévision Française". – **Lille:** The first movement of the melody "Petit Quinquin" followed by "Ici Radio Lille, Radiodiffusion-Télévision Française". – **Limoges:** "Ici Limoges, Radiodiffusion-Télévision Française". – **Lyon:** Harmonizing by R. Corniot of the melody "Les Bœufs" by F. Dupont followed by "Ici Lyon, Radiodiffusion-Télévision Française". – **Marseille:** The first movements of the Provencal Suite by Bessière followed by "Ici Marseille Provence, Radiodiffusion-Télévision Française". – **Nancy:** Some movements from "A la Volette" followed by "Ici Radio Lorraine, Champagne, Radiodiffusion-Télévision Française". – **Rennes:** Trumpet fanfares by Brand followed by "Ici Radio Bretagne, Radiodiffusion-Télévision Française". – **Strasbourg:** The first movements of "Que notre Alsace est belle" followed by "Ici Strasbourg, Radiodiffusion-Télévision Française". – **Toulouse:** The first movements of "Montagnards" followed by "Ici Toulouse, Radiodiffusion-Télévision Française".

F.PL.: FM-st. at Arras (Nord) and Paris (Tour-Eiffel). – **PUB.:** Weekly: Prgr. schedule.

FOREIGN SERVICE

Short Wave Centre Allouis and Issoudun: 13 transmitters, each 100 kW, and 1 transmitter 10 kW.

kc/s	m	kc/s	m	kc/s	m	kc/s	m
944	318	7165	41.87	9755	30.76	15400	19.48
1277	235	7220	41.55	9765	30.72	15420	19.45
1376	218	7240	41.44	10430	28.75	17715	16.93
3965	75.67	7280	41.21	11700	25.64	17765	16.89
5955	50.37	9520	31.51	11845	25.32	17780	16.87
5965	50.28	9540	31.45	11920	25.17	17830	16.83
6045	49.63	9550	31.41	15100	19.87	17850	16.81
6145	48.82	9560	31.38	15125	19.83	17900	16.76
6175	48.58	9585	31.30	15190	19.75	21580	13.90
6200	48.39	9625	31.17	15240	19.68	21620	13.88
7100	42.25	9640	31.12	15295	19.61	21640	13.86
7105	42.22	9675	31.01	15330	19.57	21720	13.81
7120	42.13	9680	30.99	15350	19.54	21740	13.80
7160	41.89	9750	30.77				

EUROPEAN SCE.:

Arabic:
W. 10.30–11.00: m.w. network II Paris IV 912 kc/s.
Bulgarian:
D. 19.00–19.45: 9675, 11700 kc/s
Czech, Slovak:
D.: 19.00–20.00: 5955, 15190* kc/s.
English:
W. 07.45–08.00: 7240 kc/s[1])
Mo.-Fri.: 22.00–23.00: 1376 kc/s
Sat., Sun.: 14.00–15.00: 7240 kc/s.
French (Danube-Balkan):
Sun.: 17.30–17.45: 5955, 7220 kc/s[2])
D.: 20.00–21.00: 5955, 9540, 15190 kc/s*
German:
W.18.00–19.00: 1277, 6045 kc/s[1])
Sun.: 18.40–19.30: 1277 kc/s
Greek:
D. 11.30–11.45 15295 kc/s[3])
Hungarian:
D. 18.15–19.00: 5955, 9540, 9765 [4]) kc/s.
Polish:
Sun.: 10.00–11.00: 9550 kc/s[5]
W.: 17.00–17.15:7220,5955kc/s[1])
D.: 17.30–18.00: 1376 kc/s.
D.: 19.00–20.00: 6045, 7160, 9540 kc/s
D.: 19.15–20.00: 9625[6]), 15400 kc/s
Portuguese:
W.: 07.30–07.45: 7240 kc/s[1])
D.: 19.00–19.30: 9765 kc/s
W.: 19.30–19.45: 9765 kc/s[1])
Rumanian:
D.: 18.15–19.00: 11700 kc/s
Spanish:
W.: 07.15–07.30: 7240 kc/s[1])
D.: 21.00–21.45: 5955, 7240 kc/s
W.: 21.45–22.00: 5955, 7240 kc/s[1])
W.: 22.00–22.45: 944 kc/s.
Serbo-Croatian and Slovene:
D.: 18.00–19.00: 7160, 9675 kc/s
Yiddish:
W.: 21.15–21.30: 9540, 11845 kc/s.

*) Tangier [1]) French lessons. [2]) Religious. [3]) Rel. R. Athens exc. Sun. [4]) Rel. by Tangier at 21.00 on 15190 kc/s. [5]) Polish mass from Paris. [6]) Brazzaville.

OVERSEAS SERVICE:
I: Madagascar, Comoro Isl., Fr. Somaliland, Reunion, Kerguelen.
II: Tahiti, New. Caledonia, New. Hebrides.
III: Fr. West and Fr. Equatorial Af.–IV: Antarctic.
V: Antilles, Guiana, St. Pierre et Miquelon.
VI: Vietnam, Cambodia, Laos – VII: M. East – VIII: Canada.
IX: No. Af.–X: Latin America.

French: Prgrs. daily: **Le journal de Paris.**

	Area:	kc/s		Area:	kc/s
01.30–01.45	I	9560	16.00–16.30	I	15350, 17715
05.30–06.00[1])	IV	9755	16.30–17.15	VII	11845 15350, 17715
06.00–06.43	II	9755, 11920, 15240	17.30–17.45[3])	VIII	17850, 21580
06.46–07.15	III	9755, 11920, 15240	20.14–20.45	III	15400, 15240, 17715
10.30–11.00	V	21580, 21620	23.00–23.30	VI	11700
11.45–12.00	III	21580	23.30–01.00	V	11920, 15240
13.00–15.00[2])	VI	21620, 17830			

[1]) Mo. only. [2]) Sun. also 15.00–15.50 (Sport, music). [3]) Mo.–Fri.; Fri. 17.30–17.55.

Arabic and Kabyl:

	Area:	kc/s		Area:	kc/s
04.00–05.00	VII	9550, 11920, 15240, 1277, 1070	13.00–16.00[6])	IX	6175, 11700, 15400
06.00–08.00[6])	IX	9560, 7220 11700	16.00–18.00[4])	VII	11700, 11920
08.00–11.00[5])	IX	9560, 7220, 11700	16.00–19.00[4])	VII	15100, 17830
10.00–11.00[6])	IX	9560, 7220, 11700, 11845, 15295	19.00–20.00[5])	IX	7240, 9755
11.00–12.00[4])	IX	7220, 9560, 11700	20.00–21.00[4])	IX	7240, 9755, 11920
12.00–13.00[4])	IX	11845, 15295, 15330, 17780	21.00–23.00[7])	IX	6045, 9755, and from 22.00–23.00 710 kc/s

[4]) Arabic. [5]) Kabyl. [6]) Rel. by Algiers Arabic network. [7]) Rel. by Algiers 7000 kc/s and Arabic network m.w. 22.00–23.00.

Spanish, Portuguese:
22.45–23.00 X 11920, 15295, 15350 kc/s.
ANN.: "Allo ... (name of area) Paris vous parle". V. by QSL-card.

S.O.R.A.F.O.M. (Go. – an organization the purpose of which is improvement and development of broadcasting in the French Colonies (France d'Outre Mer).)
L.P.: Pres. of the Board of Adm.: M. Chavanon (Dir. Gen. of "Radiodiffusion-Télévision Française"). Dir. Gen.: M. R. Pontillon. Secr. Gen.: M. J. Lansier.
STATIONS: Radio-AOF, Sénégal. R. Sénégal, Sénégal. R. Mauritania, Sénégal. R. Guinée, Guinée. R. Soudan, Soudan. R. Niger, Niger. R. Côte d'Ivoire, Côte d'Ivoire. R. Dahomey, Dahomey. R. Lomé, Togo. R.-AEF, Brazzaville Congo. R. Tchad, Tchad. R. Cameroun, Cameroun. R. Douala, Cameroun. R. Garoua, Cameroun. R. Madagascar, Madagascar. R. Noumea, N. Calédonie. R. Tahiti, Tahiti. R. Djibouti, French Somali. R. Saint Pierre, Saint Pierre et Miquelon, R. Dzaoudzi, Grande Comore.

★ GERMANY ★

L.T.: GMT+1 h. – L.: German. – Rcvrs.: 14.831.248.

GERMAN FEDERAL REPUBLIC
DEUTSCHE WELLE

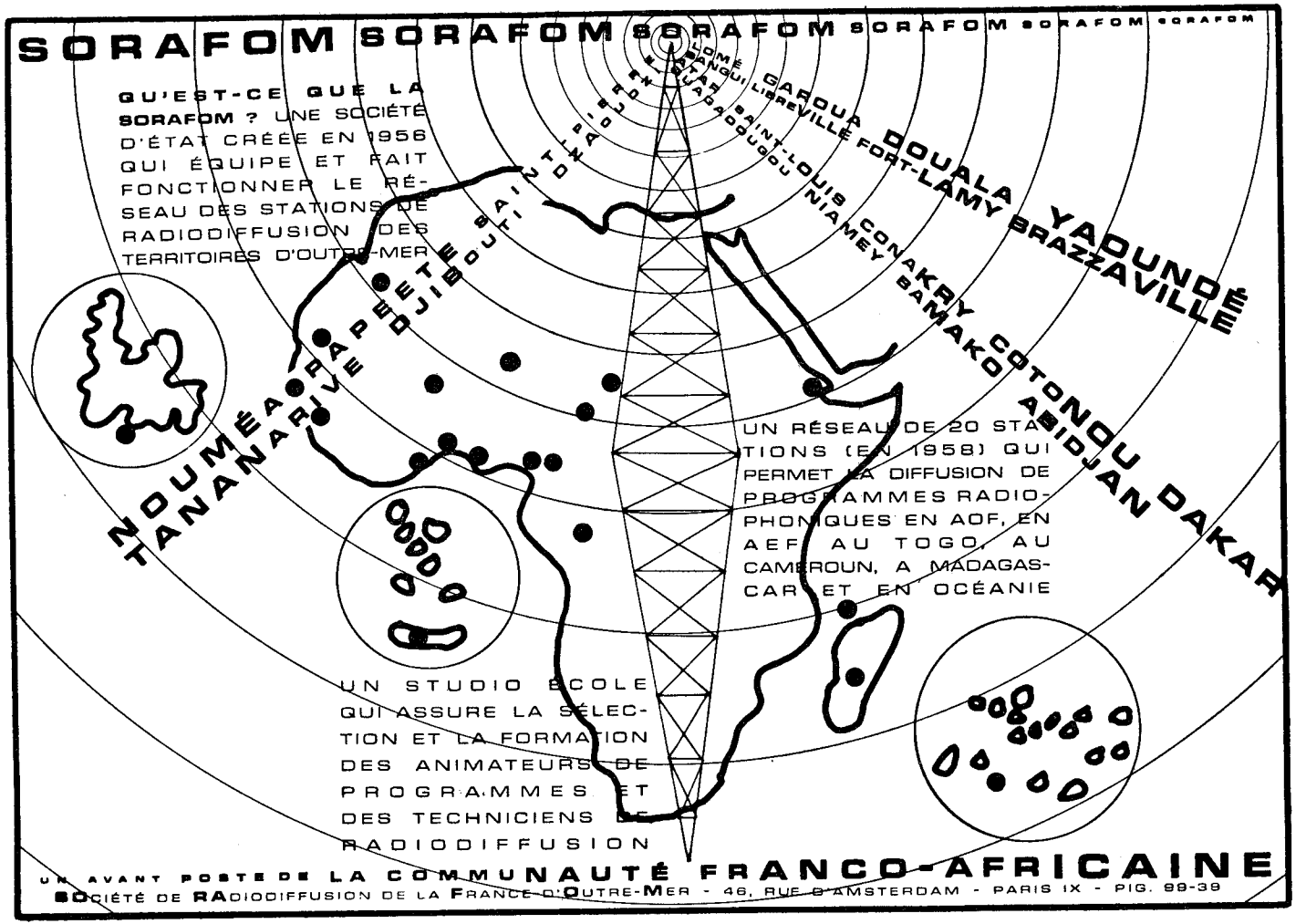
Kurzwellendienst der Arbeitsgemeinschaft der öffentlich-rechtlichen Rundfunkanstalten der Bundesrepublik Deutschland.
ADDR.: Deutsche Welle, Postfach 239, Köln. – L.P.: Intendant: Hanns Hartmann. Chief Editor: Dr. Hans Otto Wesemann. Dx-Editor: Horst A.C.Krieger.
STATIONS: Jülich – DMQ – 2 tr. – 100 kW, 1 tr. – 20 kW.

kc/s	m	kc/s	m	kc/s	m	kc/s	m
5980	50.17	9640	31.12	15375	19.51	21490	13.96
6115	49.06	9735	30.82	15405	19.47	21650	13.86
7170	41.84	11795	25.44	17815	16.84	21725	13.81
7205	41.64	11945	25.12	17845	16.81	21735	13.80
7290	41.15	15275	19.64	17875	16.79	25650	11.70
						25900	11.58

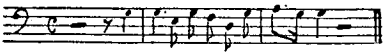
OVERSEAS SERVICE:

H. of tr.	Area	L.	kc/s	
07.00–10.00	F.E.	G., E., F.	11795/21650	Two frequencies are always used in every transmission
14.30–17.30	N.E.	G., E., F.	21490/17875	
18.00–21.00	Af.	G., E., F.	15275/17815	
22.00–01.00	So.Am.	G., P., Sp.	11795/15375	
01.30–04.30	N.Am.	G., E., F.	9640/11795	

N. in German: 07.00, 09.45, 14.30, 17.15, 18.00, 20.45, 22.00, 00.45, 01.30, 04.25. – **N. in English and French:** 08.00, 15.30, 19.00, 04.25. – **N. in Spanish and Portuguese:** 23.00. – **Commentary in German:** 09.55, 17.25, 20.55, 00.55, 04.35. – **Mbg.: "Unter uns gesagt":** Wed.: 07.30, 15.00, 18.30, 22.30. Thurs. 02.00. – **DX-prgr.** (in German and English): Every 2nd Mo. in the month: 07.30, 15.00, 18.30, 22.30. Tues. 02.00. – **"Volksmusik":** Tues.: 07.15, 14.45, 18.15, 22.15. Wed. 01.45. Sat.: 09.15, 16.45, 20.15. Sun.: 00.15, 03.55. – **Request Prgr.:** Sat. fortnightly: 07.15, 14.45, 18.15, 22.15. Sun. 01.45. – **L.L.:** Mo., Thurs.: 10.00, 17.30, 21.00. **American:** Mo., Tues., Thurs., Fri. 02.40. **French:** Mo., Tues., Thurs., Fri.: 10.00, 17.30, 21.00. **Spanish:** Mo., Tues., Thurs., Fri. 01.00. **Portuguese:** Wed., Sat. 01.00.


SORAFOM SORAFOM SORAFOM SORAFOM SORAFOM SORAFOM
QU'EST-CE QUE LA SORAFOM ? UNE SOCIÉTÉ D'ÉTAT CRÉÉE EN 1956 QUI ÉQUIPE ET FAIT FONCTIONNER LE RÉSEAU DES STATIONS DE RADIODIFFUSION DES TERRITOIRES D'OUTRE-MER
LOMÉ BANGUI LIBREVILLE FORT-LAMY BRAZZAVILLE
GAROUA DOUALA YAOUNDÉ
SAINT-LOUIS CONAKRY COTONOU DAKAR
NIAMEY BAMAKO ABIDJAN
NOUMÉA PAPEETE SAINT-DENIS
TANANARIVE DJIBOUTI
UN RÉSEAU DE 20 STATIONS (EN 1958) QUI PERMET LA DIFFUSION DE PROGRAMMES RADIOPHONIQUES EN AOF, EN AEF, AU TOGO, AU CAMEROUN, A MADAGASCAR ET EN OCÉANIE
UN STUDIO ÉCOLE QUI ASSURE LA SÉLECTION ET LA FORMATION DES ANIMATEURS DE PROGRAMMES ET DES TECHNICIENS DE RADIODIFFUSION
UN AVANT POSTE DE LA COMMUNAUTÉ FRANCO-AFRICAINE
SOCIÉTÉ DE RADIODIFFUSION DE LA FRANCE D'OUTRE-MER - 46, RUE D'AMSTERDAM - PARIS IX - PIG. 99-39

ANN.: G.: "Hier ist die Deutsche Welle. Guten Abend, liebe Hörerinnen und Hörer. Wir senden aus Köln über Richtstrahler nach... im... Meterband auf... kHz. Die Deutsche Welle sendet dieses Programm im Auftrag der Rundfunkanstalten der Bundesrepublik Deutschland. Sie hören uns heute von... bis... Greenwich Zeit". – E.: " Good evening, everybody! This is the Voice of Germany. Our program from Cologne is beamed to the Far East on the... The frequency is ... kilocycles. This program is sponsored by the broadcasting stations of the German Federal Republic and is on the air today from... to Greenwich Mean Time. We should like to inform our listeners that we broadcast news in English daily from... to... GMC.
INT.-SIG.: Motif from "Fidelio" by Beethoven: "Es sucht der Bruder seine Brüder" played on Celeste



V. by QSL-card. – PUB.: Every fourth week and quarterly. Prgr. sched. free on request. – F.PL.: At the end of 1959 2 100 kW tr.

DER BAYERISCHE RUNDFUNK (Anstalt des öffentlichen Rechts).
M.w.: 14 tr. S.w.: 1 tr. FM: 32 tr.
ADDR.: München 2, Rundfunkplatz 1. Cable: "Bayernfunk München". – L.P.: Intendant: Dr. F.Stadelmayer. Prgr.-Coordinator: W. von Cube. Adm.: H.Spies. Dir. Tec.: Dr. F.Daser.

HOME SERVICE

FIRST PRGR. on all frequencies: W. 04.30 (Sat., Sun. 05.00)–24.00 (exc. 08.55–09.35 m.w. only).
*) night only.
[1]) Kempten, Passau, Würzburg.
[2]) Augsburg, Coburg, Landshut, Regensburg.

M. waves:	kc/s	m	kW			kc/s	m	kW	
Nürnberg II	520	577	5,0	day	Nürnberg I	1602	187	20	day
Bayreuth	520	577	0,2	*)				40	night
3 l.power[1])	520	577	0,2	*)	Hof	1602	187	1	
München	800	375	100		Land./Isar	1602	187	20	*)
4 l.power[2])	1484	202	1,0	*)	Kirchheim	1602	187	20	*)

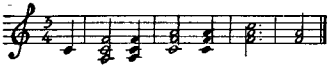
Short Wave: München-Ismaning 6085 kc/s 49.3 m 10 kW.

FM:	ch.	mc/s	kW		ch.	mc/s	kW
Lindau	4	88.3	0.5	Pfaffenberg b. / Aschaffenburg	24	94,2	18
Burgst./H.Bogen	6	88.8	18				
Traunst/Hochb.	7	89.05	3	Bamberg I	25	94.5	12
Rotbühl	8	89.4	1	Ochsenkopf/ Fichtelgeb. I	30	96.05	60
Berchtesgaden	9	89.7	0.5				
Hühn.b./b.Harb.	9	89.7	20	München/Isman.	30	96.0	1
Bad Reichenhall	11	90.3	0.5	Kreuzb./Rhön I	36	97.75	3
Wendelstein I	22	93.65	100	Dillberg I	39	98.7	18

N.: 05.00(W), 06.00(D), 07.00(D), 08.00(W), 12.00(D), 16.00(W), 18.45(D), 21.00(D), 23.00(D). – "Echo der Zeit": W. 17.30.
SECOND PRGR.: Mo.–Fri.: 04.30–08.50, 09.30–24.00. Sat., Sun.: 05.00–24.00.
Rel. First Prgr.: 04.30–05.05, 06.00–07.15; Mo.–Fri. 11.05–12.00; Wed., Fri., Sat. 23.00–24.00; Sun.: 05.00–06.05, 23.00–24.00.

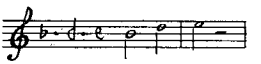
	ch.	mc/s	kW		ch.	mc/s	kW
Würzburg/ Frankenwarte	2	87.6	3	Hohe Linie	13	90.9	12
				Hohenpeissenberg	14	91.2	9
Tegernseer Tal	2	87.6	0.1	Brotjacklriegel	15	91.5	60
Landshut	3	87.9	0.1	München-Freim.	16	91.8	0.5
Gelbelsee/ Eichst. Alb.	5	88.5	12	Ochsenkopf/ Fichtelgeb. II	16	91.8	60
Kreuzb./Rhön II	8	89.4	60	Kreuzeck b. Garm. Partenk.	20	93.0	0.5
Coburg	10	90.0	3				
Wendelstein II	10	90.0	100	Passau/Kühlberg	20	93.0	0.5
Grünten/Allgäu	12	90.5	60	Dillberg II	23	93.9	18
Bamberg/Geisb. II	13	90.9	12	Büttelb./Frankenh.	32	96.6	15

ANN.: "Hier ist der Bayerische Rundfunk". E.: "This is der Bayerische Rundfunk". – V. by letter. Prgr.sched. on request.
INT.-SIG.:



RADIO BREMEN (Anstalt des öffentlichen Rechts).
ADDR.: Heinrich-Hertz-Str. 14, Bremen. – Cable: Radio.
L.P.: Intendant: H. Kerneck. Dir. Tec.: A. Olshausen. Dir. Adm.: H. Oliver.

HOME SCE. 2 m.w.tr., 3 s.w.tr , 3 FM-st. – First Prgr.: Bremen 1358 kc/s 221 m 20 kW – Bremerhaven 1079 kc/s 278 m 2 kW: W. 05.30–23.05. Sun. 06.00–23.05.
Second Prgr., FM: W. 18.45–21.45. Sun. 09 00–11.45, 15.00–21.45. (Other times relay m.w. prgr.).
Bremen II ch. 8 89 4 mc/s 18 kW – Bremen I ch 33 96.9 mc/s 18 kW – Bremerhaven II ch. 16 91.8 mc/s 0.5 kW:
N., Wrp., Commentary: (1st & 2nd prgr.): 06.00, 07.00, 12.00, 16.00 (exc. Sat.), 18.30, 20.45, 21.30, 23.00. – "Die Zeit im Funk": W. 18.00–18.30.
ANN.: "Hier ist Radio Bremen mit dem ersten, bzw. zweiten Programm". – INT.-SIG.: – V. by QSL-card.



HESSISCHER RUNDFUNK (Anstalt des öffentlichen Rechts)
ADDR.: Bertramstrasse 8, Frankfurt-am-Main – M. w. 2tr. FM 10 tr.
L.P.: Intendant: E. Beckmann. Dir. Prgr.: Dr. H. J. Lange. Dir. Adm.: Dipl. Kaufmann H. Weber. Dir. of the Staff: W. Heckroth. Dir. Tec.: Dr.-Ing. F. Miseré. Justitiar: W. Lehr. Listener Opionins: E. R. Richter. Dir. Politic & N.: Chief Editor O. Herr. Dir. Culture: Dr. J. Petersen. Dir. Music: Dr. H. W. Kulenkampff. Dir. Entertainment: W. Jaspert.

HOME SERVICE

PRGR. I:
Frankfurt 593 kc/s 505.8 m 100 kW D – Meissner 593 kc/s 505.8 m 20 kW D.
FM: Feldberg 88.53 mc/s 10 kW – Biedenkopf 95.37 mc/s 10 kW
Hardberg 93.30 – 0.25 – – Würzberg 96.0 – 0.25 –
Meissner 93.30 – 0.25 –

PRGR. II:
FM: Meissner 89.69 mc/s 10 kW – Biedenkopf 91.20 mc/s 10 kW
Hardberg 89.70 – 0.25 – – Feldberg 92.13 – 10 –
Würzberg 89.74 – 0.25 –

Prgr. I+II: Mo.-Fri.: 04.30–09.10 (Wed. 08.40, Thurs. 08.30 or 09.00), 10.00–13.05, 13.30–23.00 (Fri. 03.30). Sat. 04.30–03.30. Sun. 05.30–23.00. – N.: 04.30 (W), 05.00 (W), 05.30 (Sun.), 06.00, 07.00 (Sun.), 11.50 (W), 17.00 (W), 23.00. – Wrp.: 04.30 (W), 05.00 (W), 06.00, 06.30, 07.00, 11.50 (W), 23.00.
Prgr. I: N., Wrp.: 07.00 (W), 11.50 (Sun.), 18.40, 21.00. – Commentary: Mo.-Fri.: 18.54, 21.10. – Sat. 21.05. – Sun. 18.50.
Prgr. II: N., Wrp.: 07.10 (W), 12.20 (Sun.), 20.08. – L.L.: Italian Mo., Wed., Fri.: 18.30–19.00.
ANN.: "Hier ist der Hessische Rundfunk" or "Hier ist Frankfurt."
INT.-SIG.: Electronic music. – V. by QSL-card. – PUB.: Prgr. Schedule (half-yearly).

NORDDEUTSCHER RUNDFUNK
(Anstalt des öffentlichen Rechts).
M.w.: 10 tr. S.w.: 2 tr. FM: 28 tr.
ADDR.: Hamburg 13, Rothenbaumchaussee 132/34. Cable: Nordfunk. Hannover: Hannover, Rudolf-von-Bennigsen-Ufer 22. – Studios: Flensburg: Friedrich-Ebert-Str. 1. – Oldenburg: Oldenburg i.O., Jägerstr. 30. – Berlin: Berlin-Grünewald, Hubertusallee 26.

L.P.: Intendant: Dr. W.Hilpert. Prgr. Dir.: Dr. H.Arnold. Finanzdir.: G.Schulz. Technischer Dir.: Dr. H.Rindfleisch. Leiter des Aussenreferats: W.D.Schultz.

HOME SERVICES

FIRST PRGR.: D. 03.55 (Sun. 04.58)–00.15 (Sat. 01.15). Night-prgr. on 971 kc/s (Hamburg), 1586 kc/s (Oldenburg), Hamburg 92.1 mc/s, Harz 96 mc/s, Sun., Mo., Fri. 00.15–03.30. Sat. 01.15–04.30.

	kc/s	m	kW		kc/s	m	kW
Braunschweig	520	577	2	Lingen	1570	191	2/5
Norden/Osterloog	701	428	5	Hannover	1586	189	40
Göttingen	971	309	5	Kiel	1586	189	2/5
Hamburg	971	309	100	Oldenburg	1586	189	40
Flensburg	1570	191	10	Osnabrück	1586	189	5

Short Waves: Norden/Osterloog:
6075 kc/s 49.38 m 20 kW – 3970 kc/s 75.57 m 5 kW.
FM Stations (relay m.w. prgr. exc. night prgr.)

	ch.	mc/s	m		ch.	mc/s	m		ch.	mc/s	m
Oldenb.	2	87.6	100	Heide	10	90	15	Hamb.	31	96.3	50
Dannenb.		89.7	15	Hannov.	36	97.8	1.25	Harz	43	99.9	100
Bungsb.	29	95.7	0.5								

N. Wrp.: D.: 04.00(W), 05.00(W), 06.00, 07.00(W), 07.55 (Sun. 08.00), 12.00, 16.00 (exc. Sat.), 18.00, 20.45, 23.00.
SECOND PRGR.: W. 05.00–23.05. Sun. 06.30–23.05.

FM	ch.	mc/s	kW		ch.	mc/s	kW		ch.	mc/s	kW
Lübeck	3	37.9	0.5	Brauns.	6	88.8	0.5	Heide	22	93.6	15
Harz	4	88.2	100	Bungsb.	15	91.5	0.5	Osnabr.	22	93.6	3
Hambg.	5	88.5	50	Flensbg.	20	93.0	15	Hannov.	23	93.9	5
Götting.	6	88.8	2	Osterloog	21	93.3	15	Kiel	24	94.1	2
Lingen	6	88.8	15	Dannen.	21	93.3	15	Oldenb.	28	95.4	100

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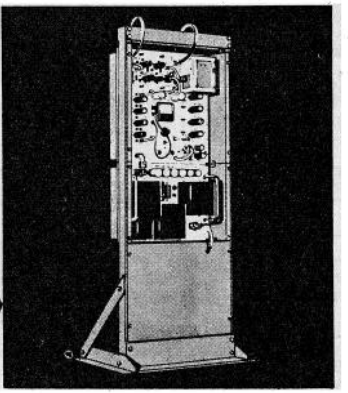

All Broadcasting and Television equipment

★

C. S. F. BROADCASTING TRANSMITTERS IN SERVICE

STATIONS	TYPE	NUMBER OF TRANSMITTERS	POWER PER TRANSMITTER (kW)
Paris – Villebon	MF	1	120 / 150
Paris – Grenelle	FM	1	0,250
Rennes – Thourie	MF	1	120 / 150
Rennes – Thourie	MF	1	24
Lille – Camphin	MF	1	60 / 100 / 150
Issoudun – Saint Aoustrille	HF	4	80/130
Bordeaux Néac	MF	1	100 / 120
Toulouse – Muret	MF	1	100
Toulouse	FM	1	0,250

STATIONS	TYPE	NUMBER OF TRANSMITTERS	POWER PER TRANSMITTER (kW)
Allouis	LF	1	250
Allouis	LF	1	250
Nancy – Vandoeuvre	FM	1	0,250
Bourges – Neuvy	FM	2	12
Alger – Eucalyptus	HF	2	25
Alger – Ouled Fayet	MF	4	100
Alger – Ouled Fayet	MF	2	20
Andorre	MF	1	60
Tunis – Djedeida	MF	1	120
Luxembourg	LF	2	250
Luxembourg	HF	2	25/50
Luxembourg	MF	1	150
Luxembourg	MF	2	100
Luxembourg	FM	1	0,250

TV TRANSMITTERS OF THE C. S. F. GROUP IN SERVICE

STATIONS	NOMINAL POWER (kW)	STATIONS	NOMINAL POWER (kW)	STATIONS	NOMINAL POWER (kW)	STATIONS	NOMINAL POWER (kW)
Paris Tour-Eiffel	20	Metz Luttange	10	Dijon–Nuits St-Georges	0,500	Besançon	0,050
Lille	20	Mulhouse	10	Lyon Ville	0,200	Toulon	0,050
Marseille	20	Strasbourg	3	Nantes	0,050	Le Havre	0,050
Caen	20	Nice	3	Reims Ville	0,050	Nancy	0,050
Lyon Mont-Pilat	20	Pic du Midi	0,500	Grenoble	0,050	Alger	0,050
Bourges–Neuvy	20	Bordeaux	0,500	Rennes	0,050	Oran	0,050
Luxembourg	20	Cherbourg	0,500			Limoges	0,003

NB - Transmitters sold to various countries (Austria, Belgium, Lebanon, Mexico, USSR, etc. . . .) are not shown in this table

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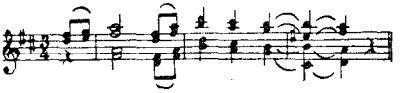
N. Wrp.: W.: 06.30, 07.30, 11.00, 17.00 (exc. Sat.), 18.55, 21.30. Sun.: 07.00, 18.55, 21.30. – **L.L.: French:** Mo., Thurs. 16.45–17.00. **English:** Tues., Fri. 16.45–17.00.
THIRD PRGR.: D. 19.00–approx. 21.30.

FM	ch.	mc/s	kW		ch.	mc/s	kW		ch.	mc/s	kW
Kiel	12	90.6	2	Hambg.	17	92.1	50	Harz	30	96.0	100
Hannov.	13	90.9	5	Götting.	18	92.4	1	Flensbg.	36	97.8	15
Oldenb.	14	91.2	100								

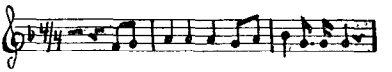
GERMAN LONG WAVE ("Im Auftrage der Westdeutschen Rundfunkanstalten"): Hamburg 151 kc/s 1986 m 25 kW. D. from 14.30–23.00.
Prgrs. consists of N., Music, "Deutschland-Echo" (W. 18.00).
ANN.: 1st Prgr.: "Hier ist der Norddeutsche Rundfunk". – **2nd Prgr.:** "Hier ist der Norddeutsche Rundfunk auf Ultrakurzwelle". – **3rd Prgr.:** "Hier ist das Dritte Programm des Norddeutschen Rundfunk".
INT.-SIG.: 1st Prgr.: Motif from the first movement of Johs. Brahms' Symphony no. 2



2nd Prgr.: "Einen verlegten Nonen-Akkord". – **3rd Prgr.:** The tones "B-A-C-H" in Regerharmonization. – V. by QSL-card.
PUB.: "Die Ansage". Weekly. Prgr. sched. Weekly.

SAARLÄNDISCHER RUNDFUNK

(Gemeinnützige Anstalt des öffentlichen Rechts)
ADDR.: Martin Lutherstrasse 12, Saarbrücken. **Cable:** Saarl. Rundfunk. – **L.P.:** Intendant: Dr. F. Mai. Programmdir.: Dr. A. Schum. Verwaltungsdir.: W. Klein. Tech. Dir.: Dipl. Ing. F. Glasow.
HOME SCE. in German: *1421 kc/s 211.1 m 100 kW.*
FM.: 96.0 mc/s 10 kW Schaumberg – 98.9 mc/s 1.5 kW Schwarzenberg.
M.W. Prgr.: W. 04.57–08.30, 10.00–23.05. Sun. 05.30–23.05. – **N.Wrp.:** 05.00 (W), 06.00, 07.00 (Sun.), 07.30 (W), 12.00, 17.00 (W), 18.30 (Sat., Sun.), 21.00, 23.00.
FM Prgr.: Rel. m.w. exc.: W. *17.15 (Sat. 15.00)*–22.00. Sun. 0715–13.00, 16.00–22.00.
ANN.: "Hier spricht der Saarländische Rundfunk auf Wellenlänge 211 m (bzw. Ultrakurzwelle 96.0 und 98.9 MHz).
INT.-SIG.: "Glück auf, der Steiger kommt." – V. by QSL-card and letter.



SÜDDEUTSCHER RUNDFUNK (Anstalt des öffentlichen Rechts).

ADDR.: Neckarstrasse 145, Stuttgart-O. **Cable:** Rundfunk Stuttgart – **Studios:** Heidelberg-Mannheim: Heidelberg, Marstallstr. 6. Karlsruhe: Kriegsstr. 168.
L.P.: Vorsitzender des Rundfunkrats: Dr. Valentin Gaa, Landrat, Schwetzingen. Vorsitzender des Verwaltungsrat: Dr. rer. nat. h.c. Dr. ing.e.h. Alex Möller, Generaldir., Karlsruhe. Intendant: Dr. Hans Bausch. Programmdir.: Dr. Peter Kehm. Verwaltungsdir.: Friedrich Müller. Technischer Dir.: Dr. Helmut Rupp.

HOME SERVICE

MEDIUM WAVE PRGR.: W. 03.53 (Tues.-Fri. 03.56. Sat. 04.57)–*23.15 (Tues.–Thurs. 03.15, Sat. 23.55). Sun. 04.57–00.10.* – ***FM:*** Interruption: Mo.-Fri.: 13.20–14.00.

Stations	kc/s	m	kW		kc/s	m	kW
Mühlacker	575	522	100	Schwäbisch-Hall	1484	202	0.2
Heidelberg	998	301	8	Eberbach	1484	202	0.2
Buchen	998	301	0.2	Mosbach	1484	202	0.2
Ulm	1169	257	3	Bopfingen	1484	202	0.2
Heilbronn	1169	257	8	Ellwangen	1484	202	0.2
Bad Mergenth.	1412	212	3	Adelsheim	1484	202	0.2
Wertheim	1484	202	0.2	Gerabronn	1484	202	0.2
Heidenheim	1484	202	0.2	Giengen	1484	202	0.2
Crailsheim	1484	202	0.2				

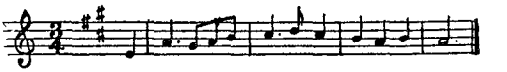
Short Wave: Mühlacker: 6030 kc/s 49.75 m 20 kW.

FM:	ch.	mc/s	kW		ch.	mc/s	kW
Stuttgart I	25	94.5	10	Waldenburg I	10	90.0	10
Aalen I	19	92.7	3	Geislingen I	14	91.2	0.25
Heidelberg I	15	91.5	10	Ulm I	3	87.9	0.25

N.: W. 04.30, 05.00, 06.00, 07.00, 08.00, 11.30, 13.15, 17.00, 18.30, *21.00*, 23.00. Sun. 07.00, *11.30, 18.30, 21.00*, 23.00. – ***"Volksmusik":*** Wed. 16.00–16.30, Sat. 13.20–13.45.
FM-PRGR.: W. 16.00 (Sat. 07.05)–23.15 (Sat. 23.55). Sun. 07.05–23.10. Relay m.w.prgr. until W. 16.00 exc. Sat. and interruption W. 07.20–08.00.

	ch.	mc/s	kW		ch.	mc/s	kW
Waldenburg II	22	93.6	10	Aalen II	7	89.1	3
Stuttgart II	21	93.2	0.25	Bad Mergenth.	6	88.85	0.05
Wertheim	19	92.72	0.05	Mühlacker	6	88.8	1
Buchen	19	92.67	0.05	Heidelberg II	3	87.9	10
Ulm II	15	91.5	0.25	Geislingen II	2	87.6	0.25
Stuttgart II	13	90.9	10				

N.: W. 17.00, *19.00*, 22.00, 23.00. Sun. *09.00, 12.00, 19.00*, 22.00, 23.00 – **"Volksmusik":** Tues., Thurs. 16.30–17.00. Sat. 10.15–10.30, 16.00–16.30. Sun. Every six weeks 08.20–09.00.
ANN.: "Süddeutscher Rundfunk" – **INT.-SIG.:** The first notes of a Swabian folksong "Jetzt gang i ans Brünnele" – V. by QSL-card.



SÜDWESTFUNK (Anstalt des öffentlichen Rechts).

10 m.w.st., 1 s.w.st., 30 FMst.
ADDR.: Anstalt des öffentlichen Rechts, Hans Bredowstrasse, Baden-Baden. **Cable:** Südwestfunk Baden-Baden. – **Studios: Freiburg i Br.:** Günterstal, Kyburg. **Mainz:** Deutschhausplatz 8. **Tübingen:** Matthias-Koch-Weg 7 – "Zweigstellen": **Kaiserslautern:** auf dem Sess. **Koblenz:** Januarius-Zick Str. 8. **Trier:** Zeughausstr. 27.
L.P.: Vorzitzender des Rundfunkrates: Prof. Dr. K. Holzamer, Mainz. Vorzitzender des Verwaltungsrates: Dr. J. Knecht, Freiburg i Br. Intendant: Senator h. c. Prof. Fr. Bischoff. Programmdir. u. stellvertretender Intendant: L. Hartmann. Tech. Dir.: E. Becker. Verwaltungsdir.: A. Manke. Presse u. Information: H. R. Fröbel. Leiter Freiburg Studio: E. Brugger. Leiter Mainz Studio.: Dr. P. Felberg. Leiter Tübingen Studio: A. G. Richter.

HOME SERVICE

PRGR. 1: Sun. 05.50–24.00. W. 04.45–23.10 (Wed. 24.00, Sat. 01.00).

M. Waves:	kc/s	m	kW		kc/s	m	kW
Baden-Baden	827	363	1.5	Trier	827	363	1
Freiburg	827	363	40	Rheinsender	1016	295	120
Kaiserslautern	827	363	3	Bad Dürrheim	1538	195	20
Koblenz	827	363	0.5	Ravensburg	1538	195	40
Sigmaringen	827	363	3	Reutlingen	1538	195	10

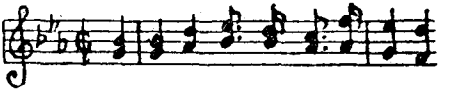
Short Wave: Bad Dürrheim 7265 kc/s 41.29 m 1.5 kW.

FM	ch	mc/s	kW		ch.	mc/s	kW
Baden-Baden I	18	92.5	0.9	Linz I	36	97.8	18
Betzdf.I/West.	20	93.0	0.35	Potzberg I	28	95.4	20
Blauen I	29	95.7	8.4	Raichberg I	16	91.8	12
Feldberg	22	93.6	1	Witthoh I	2	87.6	37.5
Haardtkopf I	22	93.6	30	Wolfsheim I	33	96.9	18
Hochrheinsd.I	7	89.1	0.07	Hornisgrinde I	20	93.0	60
Koblenz I	25	94.5	2.8				

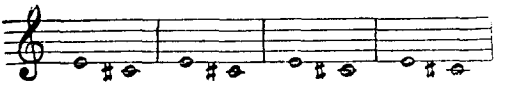
N. Wrp.: 04.50 (W), 06.00, 07.00, 08.30 (W), 11.45, 15.00 (W) 21.00, 23.00. – **"Tribüne der Zeit":** W. 18.30. Sun. 18.40. – **"Deutsche Pressestimmen":** W. 12.00. – **French by R.:** Mo., Thurs. 08.45.
PRGR.: II: Sun. 05.50–24.00. W. 04.45–23.10 (Wed. 24.00, Sat. 01.00).

FM:	ch.	mc/s	kW		ch.	mc/s	kW
Baden-Baden 2	10	89.9	0.9	Mainz	21	93.3	0.03
Betzdorf 2	8	89.4	0.35	Linz 2	30	96.0	18.
Blauen 2	3	87.9	2.8	Potzberg 2	14	91.2	20
Eifel	4	88.2	8	Raichberg 2	4	88.2	12
Feldberg	38	98.4	1	Waldburg	18	92.4	18
Haardtkopf 2	10	90.0	30	Weinbiet	11	90.3	36.
Hochrheinsn.2	19	92.7	0.07	Witthoh 2	14	91.2	37.5
Hornisgrinde	8	89.4	60	Wolfsheim 2	41	99.3	18
Koblenz 2	13	90.9	2.8				

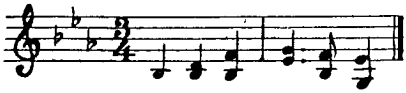
N. Wrp.: W. 04.50 (W), 06.00, 07.00 (W), 09.00(Sun)., 11.00, 13.45 (Sun.), 15.00 (W), 19.00, 21.00, 23.00. – **French by R.:** Mo., Thurs. 09.00.
ANN.: "Hier ist der Südwestfunk. Über Mittelwelle und UKW I hören Sie... Über UKW II hören Sie..." – **INT.-SIG.: Baden-Baden:** Motif from Mozart's "Zauberflöte": "Bald prangt den Morgen zu verkünden" (Piano)



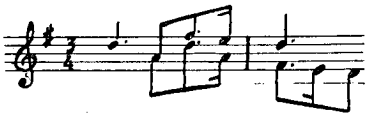
Studio Freiburg: Glockenmotif des Freiburger Münsters: "Petrus und Maria".



Studio Tübingen: "Droben im Oberland" (2 horns).



Landesstudio Rheinland-Pfalz (Mainz): The first movements in the song: "Dort wo der alte Rhein" (Celesta). – **V.** by letter.



WESTDEUTSCHER RUNDFUNK (W.D.R.) (Anstalt des öffentlichen Rechts). 7 m.w. tr. s.w. (Deutsche Welle). FM.: 20 tr. TV: 5.
ADDR.: Wallrafplatz 5, Köln. **Studios: Bonn**, Bundeshaus. **Dortmund**, Westenhellweg 86/88. **Bielefeld**, Lessingstr. 3. **Münster**, Warendorferstr. 1. **Düsseldorf**, Schadowstr. 72. – **L.P.**: Intendant.: H. Hartmann. Justitiar u. Finanzdir.: Dr. H. Brack. Verwaltungsleiter: H. Sand. Tec. Dir.: K. Schulz. Pressechef: J. Rick. Aussenreferat: Frau Dr. F. Hömke.
HOME SCE.:
M.W.-Prgr.: W. 03.55–09.30, 10.00–03.30 (Tues., Wed., Thurs. 00.15). Sun. 04.58–03.30.

Medium Waves:	kc/s	m	kW		kc/s	m	kW
Aachen/Stolb.	701	428	2	Münster	1502	199.7	0.8
Herford	701	428	2	Bonn	1586	189	5
Siegen	755	397	2	Kleve	1586	189	3
Langenberg	971	309	100				

FM. Common WDR and NDR m.w. prgr.

	ch.	mc/s	kW		ch.	mc/s	kW
Langenberg	3	87.9	100	Nordhelle	39	98.7	15
Köln	21	93.4	0.5	Teutob. Wald	42	99.6	100
Aachen	38	98.4	5				

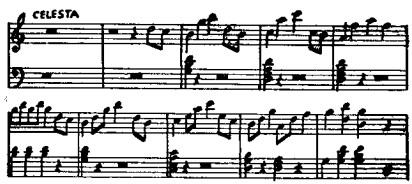
N.: W. 04.00, 05.00, 06.00, 07.00, 07.55, 12.00, 16.00 (exc. Sat.), 18,00, 20.45, 23.00. Sun. 06.00, 08.00, 12.00, 18.00, 20.45, 23.00. Commentary Mon.-Fri. 18.15–18.20. – **L.L.**: **English**: 08.35 (Thurs.), 09.00 (Fri.), 09.55 (Tues.), 10.05 (Wed.). **French**: 09.15 (Thurs.), 10.05 (Fri.).
1st. FM-prgr.: Mo.-Sat. 05.45–23.00. Sun. 06.00–23.00.

	ch.	mc/s	kW		ch.	mc/s	kW
Bonn	9	89.7	0.5	Siegen	16	91.8	0.5
Köln	9+89.75		0.5	Nordhelle	23	93.9	15
Aachen	10÷89.9		5	Teutob. Wald	24	94.2	100
Monschau	10	90.0	0.05	Münster	25	94.5	5
Kleve	15	91.5	0.25	Langenberg	29	95.7	100
Eifelsender	16	91.8	6				

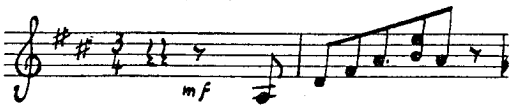
N.: W. 06.30, 07.30, 11.30, 16.45, 19.00, 22.00. – Sun. 07.30, 11.35 19.00, 22.00.
2nd FM-prgr.: Sat. 19.00–21.00.

	ch.	mc/s	kW		ch.	mc/s	kW
Langenberg	11÷90.2		50	Münster	13	90.9	5
Teutob. Wald	12+90.65		100	Nordhelle	32	96.6	15

ANN.: 1st Prgr.: "Westdeutscher Rundfunk". – 2nd Prgr.: "Westdeutscher Rundfunk, Ultrakurzwellenprogramm", "Westdeutscher Rundfunk, zweites Ultrakurzwellenprogramm".
INF.-SIG.: **1st Prgr.**: Motif from "In allen guten Stunden" (L. van Beethoven). Electronic instrument.



2nd Prgr.: Motif from the second movement of the third symphony Es-flat (Robert Schumann). Played on Celeste.



V. by QSL-card. – **PUB.**: Yearbook WDR, Programmkatalog 1958/59.

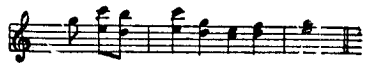
BERLIN–WEST

RIAS-Berlin (United States Information Agency) 1 1.w.tr., 3 m.w.tr., 1 s.w.tr., 2 FM-st.
ADDR.: Berlin-Schöneberg, Kufsteinerstr. 69. – **Cable**: RIAS-Berlin. – **L.P.**: Dir.: L. P. Dalcher. Dir. Prgr.: Heinz-Adolf von Heintze. Dir. Adm.: M. R. Braun. Dir. Tec.: Albert Pösniker. Dir. Pub. Rel.: Dr. Claus Brock.

STATIONS:	kc/s	m	kW	
München[3])	173	1735	1000	D. 04.30–07.30, 10.45–13.00
Berlin/Hof[1])	683	439	100	D. 24 h. exc. Sat. 01.05–04.00 on 737 kc/s. From 16.45 (Sat.17.00, Sun. 13.00) –23.00. RIAS II on 737/6005 kc/s (Sun. until 17.00 also 683 kc/s).
Berlin/Hof[3])	737	407	20	
Berlin[1])	989	303	300/200	
Berlin[2])	6005	49.94	20	

FM	ch.	mc/s	kW
Berlin[2])	6	88.8	10
Berlin[1])	17	92.1	3

[1]) RIAS I. [2]) RIAS II. [3]) VOA
N., Wrp.: D. 23.00, 00.00, 01.00, 02.00, 03.00, 04.00, 04.30, 05.30, 06.30, 07.30, 08.30, 10.00 (W), 11.30, 12.30 (W), 15.30 (Sun., RIAS I). – **RIAS I**: 18.00, 20.00 (W), 21.00 (Sun.), 22.00 (W). – **RIAS II**: 15.30 (Sun.), 17.30, 19.30 (W), 20.30 (Sun.), 22.00. – **N. on 173 kc/s**: D. 04.30, 05.30, 06.30, 07.15 (W), 11.00 (W), 11.30 (Sun.), 11.50.
"Volksmusik": Sat. 14.00. – **"Lieder der Heimat"**: RIAS I: Mo. 20.30. – **"Koche mit Musik"**: Thurs. 10.05-11.00. RIAS II: Fri. 18.00.
ANN.: "Hier ist RIAS-Berlin". – **INT.-SIG.**: From a Trio Sonata by Karl Fasch.



V. by QSL-card, addressed to: Hörerpost – **PUB.**: Press sce. fortnightly. RIAS schoolbroadcast every six weeks.

SENDER FREIES BERLIN (Anstalt des öffentlichen Rechts)
ADDR.: Masuren Allee 8–14, Berlin-Charlottenburg 9, (West Berlin). – **Cable**: Sender Freies Berlin.
L.P.: Intendant: W. Geerdes. Dir. Prgr.: H. Fischer. Dir. Adm.: H. Koch. Dir. Tec.: U. Blässer.
HOME SCE.:

Berlin 1st Prgr.	566 kc/s	530 m	20 kW
FM	90.0 mc/s		10 –
Berlin 2nd Prgr.	1484 kc/s	202 m	5 kW
FM	93.6 mc/s		10 –

1st Prgr.: Mo. 03.55–03.30. Tues.-Fri.: 03.55–24.00; Sat.: 03.55–04.30; Sun. 04.58–04.30.
2nd Prgr.: Mo.-Fri.: 06.28–23.30. Sun., Sat.: 06.58–24.00.
ANN.: "Hier ist der Sender Freies Berlin mit dem ersten Prgr... zweiten Prgr.". – **INT.-SIG.**: Beethoven's Egmont-Fanfare. – **V.** by QSL-card.
F.PL.: 100 kW m.w.tr. at the end of 1959.

SAAR
EUROPE 1 (Comm.)
ADDR.: Télécompagnie 28, rue Francois Ier, Paris 8e. **Cable**: Euradio Paris. – **L.P.**: Dir. Gen.: Luis Merlin. Dir. Tec.: M. Fromaget. Dir. Prgr.: L. Morisse, P. Delanoë. Dir. Adm.: F. Billmann.
STATIONS: 182 kc/s 1648 m 400 kW: **D. Prgr.**: 05.30 (Sun. 06.00)–24.00. – **N.**: D. 05.30, 06.30 (Sun.) 07.30, (W) 18.30, 22.55. – **W.**: 10.00, 11.00, 16.30–17.30 musical prgrs., ann. in F., E. & G.
V. by letter. – **PUB.**: Monthly "Journal de Bord".

ALLIED STATIONS

AMERICAN FORCES NETWORK (United States Army).
The American Forces Network operates solely to provide American Forces in Europa with information, education and entertainment by means of radio broadcasting.
ADDR.: United States Army Element. American Forces Network, Europe APO 757, New York, N.Y., USA. – **L.P.**: Chief, American Forces Network: Lt. Colonel S. S. Kale. Prgr. Supervisor: D. Brewer. Tec. Supervisor: F. C. Mortensen.

STATIONS:	kc/s	m	kW		kc/s	m	kW
Munich*)	548	547	100 A	Schweinfurt	1142	263	0.25 B
Nürnberg	611	491	10 A	Würzburg	1142	263	0.25 B
Grafenwöhr	611	491	2 B	Bamberg	1304	230	0.25 B
Kaiserslaut.*)	665	451	10 A	Berchtesgaden	1304	230	0.25 B
Frankfurt*)	872	344	150 A	Heidelberg	1304	230	1 B
Berlin*)	935	321	10 A	Regensburg	1304	230	0.25 B
Ansbach	1034	290	0.25 B	Fulda	1304	230	0.25 B
Bad Kissingen	1034	290	0.25 B	Bitburg	1394	215	0.25 A
Stuttgart*)	1106	271	100 A	Garmisch	1502	199.7	0.25 B
Bremerhaven*	1142	263	1 A	Giessen	1502	199.7	0.25 B
Füssen	1142	263	0.25 B	Straubing	1502	199.7	0.25 B
Hersfeld	1142	263	0.25 B				

*) Studio Installations.

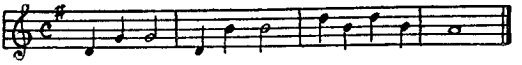
FM.: Heidelberg FM 93.9 mc/s 3.18 m 0.25 kW A.
Frankfurt FM 94.9. kc/s 3.16 m 10 kW A.

D. PRGR.: A. 05.00 (Sun. 06.00)–24.00.
"Request Show": W. 05.30, 10.35, 16.05, 23.50.
N. Every h. on the h. – **Local N.:** Mo.-Fri. 16.50.
ANN.: "This is AFN, The American Forces Network" announced at least every half hour. – **INT.-SIG.:** Every h. on the h. AFN announces the time and the sixth and final pip is exactly on the h. as announced. – **V.** by letter.

BRITISH FORCES NETWORK (Military)
B. F. N.'s function is to entertain and provide a reliable news service for members of H. M. Forces and their dependants in N. W. Germany.
ADDR.: BFN, Cologne, British Forces Post Office 19. – **L.P.:** St. Dir.: I. J. Woolf. Ass. St. Dir.: D. G. Philips. Dir. Tec.: A. Langford.
STATIONS: FM

	mc/s	kW		mc/s	kW		mc/s	kW
Langenberg	89.15	60	Bonn	91.4	3	Berlin	94.3	3
Nordhelle	89.15	18	Herford	93.0	6	Drachenberg	99.3	60
Verden	90.3	60						

English: 05.30 (Sun. 07.00)–22.30 (Sat. 24.00) – **N. from BBC:** 07.00, 08.00, 12.00, 18.00, 21.30. N. summaries on the half h. hourly. – **N. of Germany:** W. 06.50, 12.10. – **Mbg.:** Two way exchange with the BBC Light Prgr.: Sun. 12.00–18.00. – **Club:** Mo.-Fri. 17.00. – **Wrp.:** 07.30, 08.10, 13.10, 19.15, 23.30.
ANN.: "This is the British Forces Network in Germany". – **INT.SIG.:** British Army Bugle Call "Fall-in" played on Celeste.

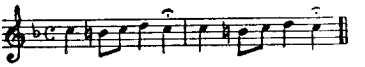


V. by letter. Listeners report appreciated. R. p. – **PUB.:** BFN bulletin weekly.

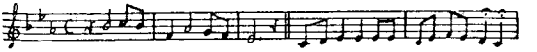
RADIO FREE EUROPE (Pr., non-comm.) – by American contribution.
ADDR.: Radio Free Europe, a Division of the Free Europe Committee Inc., 2 Park Avenue, New York 16, N.Y., USA. – **European addr.:** Englischer Garten 1, München 22, Germany. **Cable:** Raduropa. – **L.P.:** Pres., Free Europe Committee Inc. (New York): Lieut. Gen. W. D. Crittenberger, USA, Ret'd. Dir. Radio Free Europe: Thomas H. Brown, Jr. European Dir.: Erik Hazelhoff. Dir. of Engineering: Claude M. Harris, European Dir. of Engineering: Russell E. Geiger, Jr.
STATIONS:
Medium Wave: Holzkirchen 719 kc/s 417.2 m 135 kW.
Short Wave: Eight s.w.tr. in Biblis, Germany, 10, 20, 50 kW (E.R.P.) and thirteen s.w. tr. in Portugal, 10, 50, 100 kW (E.R.P.).

kc/s	m	kc/s	m	kc/s	m	kc/s	m	kc/s	m
3960	75.75	7180	41.78	9750	30.77	15135	19.81	17770	16.88
5960	50.37	7192	41.72	11725	25.59	15145	19.81	17805	16.85
5970	50.25	7235	41.47	11735	25.56	15170	19.78	17835	16.82
5985	50.12	7245	41.41	11745	25.54	15185	19.76	17840	16.82
6015	49.88	7285	41.18	11755	25.52	15195	19.74	17855	16.80
6020	49.83	7295	41.12	11760	25.51	15215	19.71	17875	16.79
6095	49.22	9505	31.56	11775	25.48	15255	19.66	17885	16.78
6105	49.14	9595	31.27	11815	25.39	15265	19.66	21485	13.97
6130	48.94	9605	31.23	11830	25.36	15295	19.61	21600	13.89
7105	42.22	9655	31.07	11855	25.31	15355	19.54	21620	13.87
7140	42.02	9695	30.95	11885	25.24	15365	19.53	21665	13.84
7145	41.99	9712	30.89	11895	25.22	15405	19.47	21720	13.81
7155	41.93	9715	30.88	11915	25.17	15420	19.46	21745	13.80
7165	41.87	9717	30.87	11940	25.13	17725	16.93		
7175	41.80	9725	30.85	15115	19.85	17735	16.92		

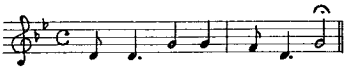
Most RFE frequencies are registered for use both in Germany and in Portugal; the selection of tr. location is a function of propagation conditions throughout the year.
D. PRGRS. to Bulgaria, Czechoslovakia, Hungary, Poland, Rumania.
BULGARIAN SCE.: 04.00–06.00 (Sun. 06.00–07.00), 17.00–18.00, 20.00–22.00, 22.30–23.00 in 49, 41, 31, 25, 19, 16, 13 m.b. – **N.** every h. on the h.
CZECHO/SLOVAK SCE.: 03.57 (Sun. 05.57)–22.00, 22.40–23.00 on 417 m, and in 75, 49, 41, 31, 25, 19, 16, 13 m.b. – **N.** every h. on the h.
HUNGARIAN SCE.: 04.55 (Sun. 06.55)–22.00, 22.20–22.40 on 417 m, and in 75, 49, 41, 31, 25, 19, 16, 13 m.b. – **N.** every h. on the h.
POLISH SCE.: 03.55 (Sun. 05.50)–22.20 on 417 m, and in 75, 49, 41, 31, 25, 19, 16, 13 m.b. – **N.** every h. on the h.
RUMANIAN SCE.: 04.00–06.00 (Sun. 06.00–07.00), 16.00–17.00, 18.00–20.00, 22.00–22.30 in 49, 41, 31, 25, 19, 16, 13 m.b. – **N.** every h. on the h.
Frequency band assignments change throughout the year as propagation conditions vary.
ANN.: Bulgarian: Sign on and off: Took e Radio Svobodna Evropa. (This is Radio Free Europe).– **Czechoslovak:** Sign on and off: Hlásí se vám ceskoslovenská stanice rozhlasu Svobodná Evropa (This is the Czechoslovak Station of Radio Free Europe calling). – **Hungarian:** Sign on and off: Itt a Szabad Europa Radiója (This is Radio Free Europe). – **Polish:** Sign on and off: Mówi rozgłosnia Polska Radia Wolna Europa (This is the Polish station of Radio Free Europe). – **Rumanian:** Sign on and off: Aici e Radio Europa Libera, Jurnalul vorbit al Romanilor de pretutindeni (Here is Radio Free Europe, the spoken journal of all Rumanians).
INT.-SIG.:
Bulgarian: Part of Bulgarian National Anthem (Celeste):



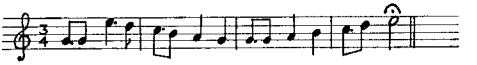
Czech/Slovak: Czech and Slovak National Anthem (Celeste):



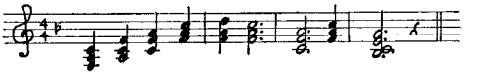
Hungarian: Old Hungarian folksong: "From the Tisza, past the Danube".:



Polish: Polish patriotic song: "Hail Glorious Dawn of May". (Brass instruments):



Rumanian: Rumanian folk tune. (Piano and Celeste).



RADIO FFB
Relay station for entertainment of the French Forces in Berlin.
ADDR.: Kurt-Schumacher-Damm, Quartier Napoléon, Berlin-Reinickendorf. – FM 96.75 mc/s 3 kW: Continuously exc. from 07.25–08.45 Tues. Thurs., Sat., and Fri.: 23.00–05.15. – **Rel.:** RTF prgrs.

RADIO LIBERATION (Pr. – Former Citizens of the U.S.S.R.)
R. Liberation speaks to the peoples of the U.S.S.R. and the Soviet Armed Forces as the free voice of their fellow countrymen abroad. R. Liberation is supported by the American Committee for Liberation, Inc., which derives its funds from contributions from private persons and organizations in the U.S.A. and which also operates the transmitting facilities.
ADDR.: Radio Liberation, Lilienthalstrasse 2, Munich 19. – **Cable:** AmComLib – or: American Committee for Liberation, Inc., 1657 Broadway, New York 19, New York, U.S.A. – **L.P.: Headquarters, New York:** Pres. of the American Committee: H. Sargeant; Dir. R. L. Network Division: S. Y. McGiffert; Chief Eng.: R. G. Hartmann. – **Munich:** Deputy to the Pres., Europe: R. F. Kelley; Dir. R. Programming Division: R. Bertrandias. Asst. Dir.: L. Rubinstein.
STATION Lampertheim: 9 s.w.tr. 20 and 50 kW (E.R.P.).

kc/s	m	kc/s	m	kc/s	m	kc/s	m	kc/s	m
3990	75.18	7205	41.64	9665	31.04	11825	25.37	15410	19.47
6055	49.55	7225	41.52	9680	30.99	11925	25.16	15415	19.46
6175	48.58	7245	41.40	9705	30.91	11935	25.14	15430	19.45
6185	48.50	7275	41.24	9730	30.83	11965	25.06	17730	16.92
6190	48.47	9565	31.36	9765	30.72	15255	19.67	17745	16.91
7130	42.08	9585	31.30	11765	25.50	15370	19.52	17765	16.89
7170	41.84	9595	31.26	11780	25.47	15395	19.49	17865	16.80

D. PRGR.: 00.00–24.00. Prgr. are prepared in Munich.
Target areas:
E. Germany 75, 49, 41, 31, 25 m. b. – Hungary 75, 49, 41 m.b. – No. So. Russia, Byelo-Russia, Ukraine 49, 41, 31, 25, 19, 16 m.b. – Tartaristan, Bashkiristan, Caucasus, Turkestan 41, 31, 25, 19, 16 m.b.
ANN.: Azerbaijanian: "Danyshyr Azatlik Radiosu". – **Armenian:** "Kjosum E "Azatagrutyun" Radiokayana". – **Byelorussian:** "Havoryc radyio Vyzvalen'nye". – **Georgian:** "Laparakobs Radiosadguri Ganthavisuphleba". – **N. Caucasus:** "Govorit Radiostantsiya Osvobozhdeniye" (Russian) plus announcements in six local languages. – **Russian:** "Govorit Radiostantsiya Osvobozhdeniye". – **Tatar-Bashkir:** "Monda "Azatlik" Radiostansyese Söyli". – **Turkestan:** "Soezlayatgan "Azatlik" Radiosy" (Uzbek) "Gepleyar "Azatlik" Radiosy" (Turkmen) plus announcements in two other local languages. – **Ukrainian:** "Hovorit Radio Vyzvolennia".

VOICE OF AMERICA RADIO STATION IN GERMANY

ADDR.: Voice of America, Washington 25, D.C., U.S.A.
STATIONS:
Long Wave: Munich-C 173 kc/s 1734 m 1000 kW 04.30–07.30, 10.45–12.00, 17.00–00.15.
Medium Wave: Munich A 1196 kc/s 251 m 150 kW 04.00–06.30, 17.00–23.30.
Short Wave: Munich 8/100 kW 02.00–07.30, 14.00–23.00.

kc/s	m	kc/s	m	kc/s	m	kc/s	m
6140	48.86	9670	31.02	11960	25.08	15340	19.56
7110	42.19	11710	25.62	15200	19.74	15440	19.43
7160	41.90	11830	25.36	15210	19.72	17735	16.92
9545	31.43					17895	16.76

DAILY PRGR.:
Long Wave:

04.30–07.30	RIAS	20.00–20.15	**English**	22.00–22.30	**English**
10.45–12.00	RIAS	20.15–20.30	German	22.30–22.45	French
17.00–19.15	**English**	20.30–21.00	Hungar.	22.45–23.00	German
19.15–19.30	German	21.00–21.30	**English**	23.00–00.15	**English**
19.30–20.00	Polish	21.30–22.00	Polish		

Medium Wave:

04.00–04.30	**English**	17.00–18.30	**English**	21.00–21.15	Serb.
04.30–04.45	Serb.	18.30–19.00	Lithuan.	21.15–21.30	Slovene
04.45–05.00	**French**	19.00–19.30	Serb.	21.30–22.00	Polish
05.00–05.30	**English**	19.30–20.00	Polish	22.00–22.30	**English**
05.30–05.45	Serb.	20.00–20.30	Estonian	22.30–23.00	Czech
05.45–06.00	**French**	20.30–21.00	Latvian	23.00–23.30	Hungar.
06.00–06.30	**English**				

Short Wave: See U.S.A.
ANN.: "This is the Voice of America Transmitter, Munich". – **INT.-SIG.:** Choir of brass playing a 10 note version of "Columbia, the Gem of the Ocean". See U.S.A. – **V.** by QSL-card. No return postage required.

GERMAN DEMOCRATIC REPUBLIC

STAATLICHES RUNDFUNKKOMITEE (Go.)

ADDR.: Staatliches Rundfunkkomitee, Berlin-Oberschöneweide, Nalepastrasse 18–50. – **Cable:** Funkkomitee. – **L.P.:** Dir. Gen.: Prof. Dr. H. Ley. Vice Dir. Gen.: W. Perk & Prof. G. Eisler. Dir. Adm.: H. Ebel. Dir. Tec.: W. Schmidt. Dir. Foreign Rel.: M. Müller. Intendant: H. Geggel (Deutschlandsender), E. Selbmann (Berliner Rundfunk), W. Kleinert (Radio DDR).
HOME SERVICES in German:
Deutschlandsender: 24 hours.

185 kc/s	1621.6 m	100 kW		881 kc/s	340.5 m	100 kW
782 –	383.6 –	250 –		6115 –	49.06 –	5 –
				7150 –	41.96 –	5 –

FM: Schwerin 89.2 mc/s Inselsberg 94.0 mc/s Sonneberg 97.6 mc/s Brocken 94.6 mc/s Berlin 98.2 mc/s.
N., Wrp.: 03.00 (W), 04.00, 04.30 (W), 05.00, 05.30 (W), 06.00, 07.00, 09.00, 11.00 (W), 12.00 (Sun.), 13.00 (W), 14.00 (W), 16.00, 18.30, 21.00, 23.00, 01.00. – **Commentary:** W. 18.42. Sun. 11.00. – **Mbg.:** Sun. 17.05.

Berliner Rundfunk I: 03.30–24.00 (Sat. 01.00).

Berlin	611 kc/s	491 m	500 kW
Reichenbach	912 –	328.9 –	20 –
Bernburg	1196 –	250.8 –	2 –

FM: Dresden 89.8 mc/s Marlow II 96.7 mc/s
Leipzig 96.4 – Karl-Marx-Stadt 99.5 –
N., Wrp.: 03.33 (W), 04.30, 05.30, 06.30, 07.30 (W), 09.30, 11.30 (W), 12.30 (Sun.), 15.30 (W), 18.30 (Sun.), 18.38 (W), 20.30, 22.30, 23.30. –

Berliner Rundfunk II: 15.30–01.00.
FM: Stülpe 91.6 mc/s Berlin-Müggelberge 92.8 mc/s
N., Wrp.: 16.00 (Sun.), 19.00, 21.30, 23.00. – **Mbg.:** Thurs. 18.08. – Relay Berliner Rundfunk I 05.00 (Sun. 05.30)–15.30.

Radio D.D.R. I: 24 hours

	kc/s	m	kW		kc/s	m	kW
Cottbus	520	576.9	5	Schwerin	728	412.1	20/220
Berlin	529	567.1	20	Dresden	1043	287.6	240
Potsdam	557	538.6	20	Suhl	1052	285.1	20
Leipzig	575	521.7	120	Seelow	1570	191.1	
Erfurt	692	433.8	20	Leipzig	9730	30.83	12

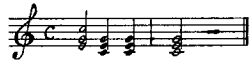
FM: Görlitz 95.2 mc/s.
N., Wrp.: 03.00 (Mo.–Fri.), 03.05 (Sat., Sun.), 04.00, 05.00, 06.00, 07.00 (W), 08.00 (Sun.), 09.00 (W), 10.00 (Sun.), 11.00 (W), 13.00, 15.00 (W). 16.00 (Sun.), 18.00, 21.00, 23.00, 24.00 (Sat.), 01.00 (exc. Sat.). –

Radio D.D.R. II: 03.00–22.00.

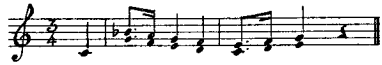
	kc/s	m		kc/s	m	kW
Karl-Marx-Stadt	602	498	Greifswald	602	498	
			Plauen	1079	278.1	20

FM: Jessen 91 mc/s Burg 97 mc/s
Marlow I 91 – Helpterberg 97.3 –
Rheinsberg 95.2 – Karl-Marx-Stadt 99.5 –

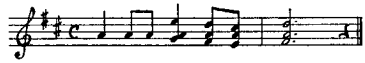
Relay R. D.D.R. I: W. 03.00–18.00. Sun.: 03.00–05.59, 08.20–18.00. **N., Wrp.:** 03.00 (Mo.–Fri.), 03.05 (Sat., Sun.), 04.00, 05.00, 06.00, 07.00 (W), 08.00 (Sun.), 09.00 (W), 10.00(Sun.), 11.00 (W), 13.00, 15.00 (W), 16.00 (Sun.), 19.00, 21.30. – **Commentary:** W. 19.12.
FOREIGN SERVICE on 6115, 7150, 9730 kc/s.
English: 20.00, 22.00. – **French:** 19.30, 21.00. – **Danish:** 19.00, 21.30. – **Swedish:** 18.30, 20.30, 22.30. (DX Prgr. 1st Mo. of the month at 18.30). **Arabic:** 04.00, 11.00, 14.00, 16.30.
ANN.: Home Service: "Hier ist der Deutschlandsender (Berliner Rundfunk)". "Hier ist Radio D.D.R. mit seinen Sendern". – **Foreign Service:** English: "Democratic Germany speaking to you". – French: "L'Allemagne Démocratique vous parle". – Swedish: "Här är Berlin. Tyska Demokratiska Republikens radio sänder på Svenska". – Danish: "Tysklands demokratiske radio sender til Danmark". –
INT.-SIG.: Deutschlandsender: From "Die Meistersinger von Nürnberg" (Richard Wagner)



Berliner Rundfunk I: Motif from Opera "Regina" (Albert Lortzing) performed by 2 French horns.

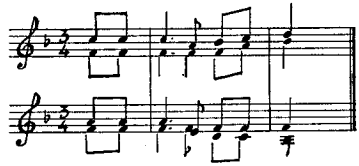


Berliner Rundfunk II: Motif: Heimat wir lassen dich nicht "from the cantata" Des Sieges Gewissheit composed by the National-Prizewinner Ernst-Hermann Meyer performed by 3 trumpets.

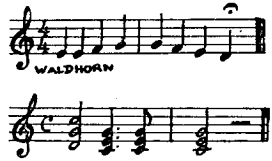


Radio D.D.R. I: »Wann wir schreiten Seit an Seit« (»mit uns zieht die neue Zeit«).

Radio D.D.R. II: Melody: »Mit uns zieht die neue Zeit«



Foreign Sce. Theme from Ludwig van Beethovens 9. symphony ("Freude, schöne Götterfunken"):



V. by QSL-card. – **PUB.:** "Unser Rundfunk", weekly.

★ GIBRALTAR (British Colony) ★

L.T.: GMT + 1 h. – **L.:** English, Spanish. – **Rcvrs.:** 4583.
RADIO GIBRALTAR (Go., Comm.)
ADDR.: British Colonial Secretariat, Gibraltar. – **L.P.:** British Colonial Secretariat (Controllers of Prgr.), Public Rel. Officer: H. Davis, Dir. Tec.: Major West-Watson. Prgrs.: Miss M. Hoare
STATION: Wellington Front 560 kc/s 535,7 m 1 kW.
D. PRGR.: English, Spanish: W.: 06.55–08.30, 10.55 (Sat. 09.55)–15.00, 16.55–23.00. Sun.: 09.00–15.00, 16.55–23.00. – **N. (BBC):** W.: 07.00, 11.00, 20.00. Sun.: 11.00, 20.00. **N. Spanish:** 13.15, 21,15. **Wrp. English:** 07.25 10.55.

★ GREAT BRITAIN ★

L.T.: GMT (Su.: GMT + 1 h.) – **L.:** English. – **Revrs.:** 14.683.125.

THE BRITISH BROADCASTING CORPORATION

(The BBC operates under a Royal Charter and under licence and agreement with Her Majesty's Postmaster General.).

Weekly Pub.: "Radio Times", "The Listener", "Hier spricht London", "London Calling Europe". – **Annuals:** "The BBC Handbook".

ADDR.: British Broadcasting Corp., Broadcasting House, London W. 1. – **L.P.:** Dir. Gen.: Sir Ian Jacob, KBE, CB. Dir. of Sound Broadc.: R. E. L. Wellington, CBE. Dir. of TV-Broadc.: G. C. Beadle, CBE. Dir. of External Broadc.: Sir J. Beresford Clark, KCMG, CBE. Dir. Eng.: Sir Harold Bishop, CBE. Dir. News and Current Affairs: Hugh Carleton-Greene, OBE. Dir. Adm.: T. R. P. Hole, CBE. Dir. Staff Adm.: J. H. Arkell. Chief Asst. to Dir. Gen.: H. J. G. Grisewood. Dep. Dir. TV-Broadc.: C. McGivern, CBE. Asst. Dir. Sound Broadc.: R. D'A. Marriott, DFC. Asst. Dir. of External Broadc.: E. Tangye Lean, CBE. Controller, Prgr. Organization (Sound): M. F. Standing. Controller, Prgr. Planning (Sound): H. Rooney Pelletier. Controller Third Prgr.: John Morris, CBE. Controller Prgr., TV: K. Adam. Controller, Overseas Sces.: D. Stephenson, OBE. Controller, European Sces.: James Monahan. Controller Music: R. J. F. Howgill, CBE. Editor, News: D. I. Edwards, OBE. Controller, Talks (Sound): J. D. F. Green. Chief Eng.: R. T. B. Wynn, CBE. Controller Finance: T. Lochhead, CBE. Controller, Scotland: A. Stewart, CBE. Controller, Wales: A. B. Oldfield-Davies, CBE. Controller, No. Ireland: R. McCall, CMG. Controller, W. Region: F. G. Gillard, OBE. Controller, Midland Reg.: H. J. Dunkerley, CBE. Controller, North Reg.: R. Stead.

HOME SCE.: W. 06.45–23.36 approx. Sun. 07.50–23.36 approx.

		kc/s	m	kW
Cromer	Northern	692	434	2
Moorside Edge	–	692	434	150
Whitehaven	–	692	434	2
Barrow	–	1484	202	2
Westerglen	Scottish	809	371	100
Burghead	–	–	–	100
Redmoss	–	–	–	5
Dumfries	–	–	–	2
Washford	Welsh	881	341	100
Penmon	–	–	–	8
Towyn	–	–	–	5
Wrexham	–	–	–	2
Brookmans Park	London	908	330	140
Ramsgate	–	1484	202	2
Start Point	West	1052	285	120
Barnstaple	–	–	–	2
Clevedon	–	1457	206	20
Bartley	–	–	–	10
Brighton	–	–	–	2
Folkestone	–	–	–	1
Bexhill	–	–	–	2
Redruth	–	–	–	2
Droitwich	Midland	1088	276	150
Postwick	–	–	–	7.5
Lisnagarvey	N. Ireland	1151	261	100
Londonderry	or Northern	–	–	0.25
Stagshaw	–	–	–	100
Scarborough	–	–	–	2

N.: 06.30 (W), 07.00 (W), 08.00, 09.00, 10.30 (W), 11.30 (Sat.) 13.00, 18.00, 21.00, 23.00.

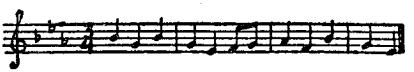
Greenwich T. S.: 07.00 (W), 08.00, 09.00, 11.00 (W), 13.00, 18.00, 23.00.

LIGHT PRGR.: W. 06.30–24.00. Sun. 09.00–24.00.

	kc/s	m	kW		kc/s	m	kW
Droitwich	200	1500	400	Moorside Edge	1214	247	60
Brookm. Park	1214	247	60	Plymouth	–	–	0.3
Burghead	–	–	20	Redmoss	–	–	2
Lisnagarvey	–	–	10	Redruth	–	–	2
Londonderry	–	–	0.25	Newcastle	–	–	2
				Westerglen	–	–	50

N.: D.: 06.30 (W), 07.30 (W), 08.30 (W), 09.30, 10.30 (W), 11.30 (W) 12.30 (W), 13.30*), 14.30*), 15.30*), 16.30*), 17.30*), 18.30*), 19.30, 20.30 (W), 21.30 (W), 22.30, 23.30 (W). – *) Mo.-Fri.

Greenwich T. S.: 07.45, 09.00 (W), 10.00 (W), 11.00 (W), 12.00 (exc. Sat.), 14.00 (W), 19.00 (W), 19.30 (Sun.), 22.30. – **INT.-SIG.:** Oranges and Lemons[1]).



There are four versions, one played on the novachord and three played on the novachord celeste; the last three differ in that they are of varying duration. – [1]) Harp arpeggio – a choice of six harp interludes.

THIRD PRGR.: 20.00 (Sat. 18.00, Sun. 17.00)–23.00 approx.
Daventry 647 kc/s 464 m 150 kW – Edinburgh, Glasgow, Newcastle, Redmoss 2 kW – Cardiff 1484 kc/s 202 m 2 kW – Belfast[2]), Bournemouth[2]), Brighton[1]), Dundee[1], Exeter[1]), Fareham[2]), Leeds[2]), Liverpool[2]), Preston[2], Plymouth[2]), Redruth[2]), Stockton[3]), Swansea[3]). 1546 kc/s 194 m [1]) 0.25 kW [2]) 1 kW [3]) 0.25/1 kW.

NETWORK THREE: Mo.-Fri. starts between 18.00– and 19.00–20.00. Sat. 16.00–18.00. (Transmitters as for Third Prgr.)

FM	Home Sce.	Light Pr.	Third Pr.	kWE.R.P.
Wrotham (Kent)	93.5	89.1	91.3	120
Pontop Pike (Newcastle)	92.9	88.5	90.7	60
Divis (Belfast, N. Ireland)	94.5	90.1	92.3	60
No. Hessary Tor (So. Devon)	92.5	88.1	90.3	60
Meldrum (Aberdeenshire)	93.1	88.7	90.9	60
Holme Moss (No. England)	93.7	89.3	91.5	120
Sutton Coldfield (Birmingham)	92.7	88.3	90.5	120
Norwich (Norfolk)	94.1	89.7	91.9	120
Blaen Plwyf (We. Wales)	93.1	88.7	90.9	60
Wenwoe (So. Wales)	94.3*	89.9		120
	92.1**			
Rowridge	92.9	88.5	90.7	60
Kerk O'Shotts	94.3	89.9	92.1	120

*) Welsh Home Sce. **) We. of England Home Sce.

FOREIGN SERVICE

MCM	3952.5	75.90	GWX	9570	31.35	GWG	15110	19.85
GRC	3975	75.47	GSC	9580	31.32	GSF	15140	19.82
MCP	5975	50.21	GRY	9600	31.25	GSO	15180	19.76
MCU	5990	50.08		9615	31.20	GWU	15210	19.72
GRB	6010	49.92	GWO	9625	31.17	GWD	15230	19.70
GWS	6035	49.71	GVZ	9640	31.12	GSI	15260	19.66
GSY	6040	49.67	GWP	9660	31.06	GWR	15300	19.61
GSA	6050	49.59	GWT	9675	31.01	GSP	15310	19.60
GSX	6060	49.50	GRX	9690	30.96		15360	19.53
GRR	6070	49.42	GWY	9700	30.93		15375	19.51
MCV	6080	49.34		9725	30.85		15390	19.49
GWM	6090	49.26	GWF	9735	30.82		15420	19.46
GSL	6110	49.10		9740	30.80	GWE	15435	19.44
GWA	6125	48.98		9750	30.77	GRD	15447.5	19.42
MCW	6140	48.86		9755	30.75	GVP	17700	16.95
GRW	6150	48.78	MCR	9760	30.74	GRA	17715	16.93
GWK	6165	48.66		9765	30.72	GVQ	17730	16.92
GSZ	6170	48.62				GRQ	17740	16.91
	6175	48.58	MCN	9770	30.71		17745	16.91
GRQ	6180	48.54	GRH	9825	30.53		17755	16.90
GRN	6195	48.43	GRU	9915	30.26	GSG	17790	16.86
MCS	7110	42.19	GRG	11680	25.68	GSV	17810	16.84
GRM	7120	42.13	GVW	11700	25.64		17860	16.80
	7130	42.08		11725	25.58	GRP	17870	16.79
GRS	7135	42.05	GVV	11730	25.58	GVO	17890	16.77
	7140	42.02	GSD	11750	25.53	GSH	21470	13.97
GRT	7150	41.96	GVU	11770	25.49		21485	13.96
GRK	7185	41.75		11780	25.47	GSJ	21530	13.93
GWZ	7200	41.67	GWV	11790	25.45	GST	21550	13.92
GWL	7210	41.61	GWH	11800	25.42	GVT	21630	13.87
	7220	41.55	GSN	11820	25.38	GRZ	21640	13.86
GSW	7230	41.49	GWQ	11840	25.34		21650	13.86
GWI	7250	41.38	GSE	11860	25.30		21655	13.85
GSU	7260	41.32	GRE	11880	25.25	MCX	21660	13.85
GWN	7280	41.21	GWW	11890	25.23	GVR	21675	13.84
GRJ	7325	40.96	MCO	11910	25.19	GVS	21710	13.82
GRI	9410	31.88	GVX	11930	25.15		21720	13.81
GSB	9510	31.55	MCQ	11945	25.12	MCY	21740	13.80
GWJ	9525	31.50	GVY	11955	25.09		25650	11.70
	9530	31.48	MCT	11960	25.08	GSR	25720	11.66
GWB	9550	31.41		11965	25.07	GSQ	25750	11.65
	9555	31.40	GRV	12040	24.92	GSS	25840	11.61
	9560	31.38	GRF	12095	24.80		25850	11.60
			GWC	15070	19.91	GSK	26080	11.50

EUROPEAN SERVICES:

STATIONS: Long and Medium Waves:
200 kc/s 1500 m – 1295 kc/s 232 m FM: Berlin 87.6 mc/s
647 – 464 – – 1340 – 224 –

The two columns below show the wavebands, which the BBC expects to use during the months from April to September and October to March. There will, however, be changes of both wavelengths and wavebands – sometimes of short notice – and listeners are advised to listen to announcements which will cover all such changes. Detailed wavelengths information can be obtained from the prgr. journals.

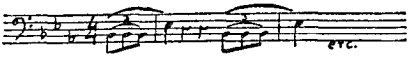
	Oct.-March m. b.	April-Sept. m.b.
Albanian:		
17.45–18.15	31, 25	25, 19
Bulgarian:		
04.30–04.45 N.	49, 41, 31, 25	41, 31, 25, 19, 16
11.00–11.15	19, 16, 13	19, 16, 13
14.30–14.45	19, 16, 13, 11	19, 16, 13, 11
16.15–16.30	25, 19, 16, 13, 11	19, 16, 13
20.30–21.00 Prgr.	31, 25, 19	25, 19, 16*
Czech:		
05.15–05.30 N.	1500, 464, 232, 75, 49, 41, 31	1500, 49, 41, 31, 25, 19, 16
11.30–11.45 (CBC relay)	31, 25, 19, 16, 13	25, 19, 16
13.45–14.00	31, 25, 19, 16, 13	25, 19, 16, 13
15.45–16.00 (E. by R. – Sun., Tues. Thurs., Sat.)	31, 25, 19, 16	31, 25, 19, 16
20.00–20.30	49, 41, 31, 25	31, 25, 19, 16*
22.15–22.30	232, 224, 75, 49, 41	232, 224, 41, 31, 25, 19
Slovak:		
11.45–12.00	31, 25, 19, 16, 13	25, 19, 16, 13
17.00–17.15	232, 31, 25, 19, 16, 13	31, 25, 19, 16, 13
English:		
05.00–05.15 E. by R.	49, 41, 31	49, 41, 31, 25
06.00–06.30 N., Prgr.	464, 49, 41, 31, 25, 19	464, 49, 41, 31, 25, 19
06.45–07.00 E. by R.	232, 75, 49, 41, 31, 25, 19[1]	464, 232, 49, 41, 31, 25, 19[1]
07.00–07.30 N., Prgr.	464, 232, 49, 41, 31, 25, 19[1]	464, 232, 49, 41, 31, 25, 19[1]
10.15–10.30 Rel. Ser.** W. only	31, 25	31, 25
12.15–12.30 E. by R.		
12.30–12.45 E. by R. Dict.	41, 31, 25, 19, 16, 13	41, 31, 25, 19, 16, 13
12.45–13.00 N. (Dictat)		
16.45–17.00 E. by R.	232, 41, 31, 25, 19[1]	232, 41, 31, 25, 19, 16[1]
17.15–17.30 E. by R.	232, 224, 41, 31, 25, 19	232, 224, 41, 31, 25, 19, 16
17.30–18.15 N., Prgr.	232, 224, 41, 31, 25, 19	232, 224, 41, 31, 25, 19
18.15–18.30 Press Rev.	224, 41, 31, 25, 19, 16, 13	224, 41, 31, 25, 19, 16, 13
19.00–19.15 E. by R.	224, 75, 41, 31, 25	224, 41, 31, 25, 19
19.15–19.30 Dictation	224, 75, 41, 31, 25	224, 41, 31, 25, 19
19.30–19.45 N.	224, 75, 41, 31	224, 41, 31, 25, 19
21.15–21.30 E. by R.	232, 224, 75, 49, 41, 31[1]	232, 49, 41, 31[1]
21.45–22.00 N.	232, 224, 75, 49, 41, 31[1]	232, 224, 49, 41, 31, 19[1]
Finnish:		
15.45–16.00 E. by R. (Mo., Thurs., Sat.)	31, 25, 19	25, 19, 16
16.00–16.45 N., Prgr.	31, 25, 19	25, 19, 16
18.45–19.00 N.	41, 31, 25	31, 25, 19, 16
French:		
06.30–06.45 N. (W)	464, 49, 41, 31	464, 49, 41, 31
07.30–07.45 (Sun.)	464, 49, 41, 31	464, 49, 41, 31
11.30–12.00 N.	464, 31, 25, 19	464, 31, 25, 19
19.45–20.45 N.	224, 49, 41, 31	224, 41, 31, 25
German:		
04.45–05.15 Prgr.	1500, 232. 75, 49[1]	1500, 232, 49, 41, 31[1]
05.45–06.30	232, 75, 49, 41[1]	232, 49, 41, 31[1]
12.30–13.00 Rel. (Sun.)	232, 25, 19[1]	232, 25, 19[1]
12.30–12.45 N. (W)	232, 25, 19[1]	232, 25, 19[1]
18.15–18.30 "Lernt E."	232, 41[1]	232, 31, 25[1]
18.30–18.45 CBC rel.	232, 49, 41[1]	232, 49, 41[1]
19.00–21.15 N. Prgr.	232, 49, 41[1]	232, 31, 25[1]
Greek:		
05.00–05.15 N.	41, 31, 25	31, 25, 19
12.45–13.00 N.	19, 16, 13	19, 16, 13
18.30–19.00 Prgr.	19, 16, 13	19, 16, 13
Hebrew:		
17.15–17.45	25, 19, 16, 13	25, 19, 16, 13
Hungarian:		
04.45–05.00 N.	464, 224, 49, 41, 31, 25	464, 41, 31, 25, 19, 16
05.45–06.00 N.	1500, 232, 75, 49, 41, 31, 25	41, 31, 25, 19, 16
12.00–12.15 N	25, 19, 16, 13	25, 19, 16, 13
13.00–13.15	25, 19, 16, 13	
14.00–14.15		25, 19, 16, 13
15.45–16.00 E. by R. (Mo., Wed., Fri.)	31, 25, 19, 16	31, 25, 19, 16
16.45–17.00 Prgr.	31, 25, 19, 16, 13	31, 25, 19, 16, 13
19.30–20.00 Prgr.	41, 31, 25, 19*	25, 19, 16*
21.30–21.45	232, 224, 75, 49, 41, 31,	232, 224, 41, 31, 25, 19, 16

Italian:		
12.15–12.30 N.	25, 19, 16	31, 25, 19
18.30–19.00 Prgr.	41, 31, 25	25, 19
21.00–21.45 Prgr.	41, 31, 25	31, 25, 19
Polish:		
04.30–04.45		1500, 464, 49, 41 31, 25
05.30–05.45	1500, 464, 232, 75, 49, 41, 31	
06.30–06.45		31, 25, 19
07.30–07.45	41, 31, 25	
13.00–13.15		31, 25, 19, 16, 13
13.15–13.30 CBC rel.	25, 19, 16	25, 19, 16
14.00–14.15	31, 25, 19, 16, 13, 11	
17.15–17.30		31, 25, 19, 16
18.15–19.00	31, 25, 19	31, 25, 19, 16
21.00–21.30	224, 49, 41, 31	224, 41, 31, 25, 19
22.00–22.15	224, 232, 75, 49, 41 31	
Rumanian:		
04.15–04.30 N.	49, 41, 31, 25	49, 41, 31, 25, 19, 16
10.45–11.00	19, 16, 13	19, 16, 13
14.15–14.30	19, 16, 13, 11	19, 16, 13, 11
16.00–16.15	25, 19, 16, 13, 11*	19, 16, 13*
19.00–19.30 N. Prgr.	31, 25, 19*	25, 19, 16, 13*
21.45–22.00 N.	49, 41, 31, 25*	41, 31, 25, 19, 16*
Russian:		
03.45–04.15	464, 224, 75, 49, 41, 31, 25	464, 224, 49, 41, 31, 25, 19, 16, 13
15.00–15.30 N. Prgr.	31, 25, 19, 16, 13, 11	31, 25, 19, 16, 13, 11
17.45–18.15	31, 25, 19, 16, 13	31, 25, 19, 16, 13
20.30–21.00	49, 41, 31, 25, 19	31, 25, 19, 16
23.15–23.30 N.	232, 224, 75, 49, 41, 31, 25, 19	1500, 464, 232, 49, 41, 31, 25, 19, 16
Spanish:		
13.00–13.15 E. by R. (Mo., Tues., Thurs., Fri.)	31, 25, 19	31, 25, 19
13.15–13.30 N.	31, 25, 19	31, 25, 19
21.15–22.00 N. Prgr.	41, 31	31, 25
Turkish:		
05.00–05.15 N.	41, 31, 25	31, 25, 19, 16
16.30–16.45	19, 16, 13	19, 16, 13
19.00–19.30	25, 19, 16	19, 16, 13
Yugoslav:		
13.15–13.30 N.	25, 19	25, 19
13.30–13.45 (Sun.)	25, 19	25, 19
13.30–13.45 E. by R., (Mo., Wed.)	25, 19	25, 19
14.45–15.15 Slovene (Sun.)	25, 19	25, 19
16.30–16.45 N.	25, 19	25, 19
18.15–18.30 Slovene	31, 25	25, 19
19.30–20.15 N. Prgr.	31, 25[1]	25, 19

* and on additional wavelength. ** Su. 1 h. earlier. [1]) also 87.6 mc/s. Berlin.

GREENWICH TIME-SIGNALS at the hour are radiated on one or other of the European Prgrs. on the long, medium or s.w. normally scheduled at 05.00, 06.00, 07.00, 11.00, 12.00, 13.00, 14.00, 15.00, 16.00, 17.00, 19.00, 20.00, 21.00, 22.00. – **Big-Ben:** 19.00 and 20.00.

ANN.: E.: "This is London calling in the European Service of the BBC" – **Fr.:** "*Ici Londres*" – **G.:** "Hier ist England" – **I.:** "La Voce di Londra". – **INT.-SIG.: for European Service:** Morse Signal "V" (V for Victory) played on Timpani (i.e. ...–).



GENERAL OVERSEAS SERVICE

The General Overseas Service, which operates 22¼ hours a day, 03.30–08.00, 09.15–03.00, and can be heard at suitable listening times all over the world, is addressed to English-speaking listeners, wherever they may be. **All Prgrs. are in English.** The times at which the General Overseas Service is available in various parts of the world and the appropriate wavebands are: (all times are subject to alterations):

	Oct.–March m.b.	April–Sept. m.b.
Australia:		
06.00–08.00	25, 19	25, 19
09.15–11.30	16, 13, 11	19, 16, 13, 11
20.00–22.15	31, 25, 19, 16, 13	31, 25, 19, 16, 13
N. Zealand:		
06.00–08.00	25, 19	25, 19
09.15–11.30	16, 13, 11	19, 16, 13
20.00–22.15	31, 25, 19, 16, 13	31, 25, 19, 16, 13

Japan, N. China, NW Pacific:

09.15–13.15	19, 13	19, 13

So. Ea. Asia, India, Pakistan, Ceylon:

01.45–02.15	31, 25	31, 25, 19
09.15–18.15	19, 16, 13, 11	19, 16, 13, 11

E. Africa, Egypt, Sudan, Israel, Jordan, Turkey, Lebanon:

03.30–08.00*	41, 31, 25, 19, 16, 13	41, 31, 25, 19, 16, 13
09.15–21.00*	25, 19, 16, 13, 11	25, 19, 16, 13, 11

* rel. by East-Mediterranean Rel. Sce. 03.30–03.45, 05.45–08.00, 09.15–09.45, 13.00–14.15.

Iraq, Persia:

03.30–08.00	31, 25, 19, 16	31, 25, 19, 16
14.15–20.15	31, 25, 19, 13	25, 19, 13

Malta, Greece, Italy, C. Mediterranean:

03.30–08.00	41, 31, 25, 19, 16, 13	41, 31, 25, 19, 16
09.15–21.00	41, 31, 25, 19, 16, 13	31, 25, 19, 16, 13, 11

C. and So. Africa:

03.30–08.00	31, 25, 19, 16, 13	31, 25, 19, 16, 13
09.15–22.45	31, 25, 19, 13, 11	25, 19, 13, 11

No. Africa:

03.30–08.00	41, 31, 25, 19	41, 31, 25, 19
16.00–22.45	31, 25, 19, 13	31, 25, 19, 13

We. Africa:

04.30–08.00	31, 25, 19, 16, 13	25, 19, 16, 13
09.15–22.45	25, 19, 13, 11	25, 19, 13, 11

Gibraltar, W. Mediterranean:

04.30–08.00	41, 31, 25, 19	41, 31, 25, 19
09.15–22.45	31, 25, 19, 13, 11	31, 25, 19, 13

So. Georgia:

22.15–00.45	25	25

Canada, USA, Mexico:

21.00–03.00	31, 25, 19, 16	31, 25, 19, 16

W. Indies, C. America, So. America, (No. of Amazon):

20.00–23.15	19, 16, 13	19, 16, 13
23.45–03.00	31, 25, 19, 16	25, 19, 16, 13

So. America:

20.00–03.00	25, 19, 16	31, 25, 19, 16

N.: 02.00, 04.30, 06.00, 07.00, 11.00, 13.00, 16.00 (Sun.–Fri.) 17.00. Sat. 18.00, 20.00, 23.00.

Home News from Britain: 07.10, 13.10, 18.10, 23.10. – **Radio Newsreel:** 00.15 (Sun.), 00.45 (W), 06.15, 14.00, 17.15. – **From the Editorials:** 02.10, 06.10, 09.40. – **Greenwich T.–S.:** 00.00, 02.00, 05.00, 06.00, 07.00, 08.00, 09.00, 10.00, 11.00, 12.00, 13.00, 14.00, 15.00, 16.00, 17.00, 18.00, 20.00, 21.00, 23.00. – **Big Ben:** 00.00, 01.00, 02.00, 04.00, 05.00, 07.00, 14.00, 18.00, 23.00. – The Greenwich T.S. and Big Ben (Full Strike) really apply to all the Overseas Stations.

ANN.: "This is the General Overseas Service of the BBC..." – **INT.-SIG.:** Bow Bells.

SPECIAL SERVICES:

PACIFIC SERVICE: (Australia, N. Zealand)	Oct.–March m.b.	April–Sept. m.b.
08.00–08.45	25, 19, 16, 13	
06.00–07.00		25, 19

FAR EASTERN SERVICE: (rel. by BBC Far Eastern Station).

China and Japan:

09.00–09.15	13	19, 13
11.00–11.30	19, 13	19, 13
12.00–12.45	19, 16, 13	19, 16, 13

South East Asia:

09.00–09.15	13, 11	13, 11
10.30–13.45	13, 11	13, 11

09.00 Japanese, 10.30 Indonesian, 11.00 Japanese, 11.30 Vietnamese, 12.00 Kuoyu, 12.30 Cantonese, 12.45 Malay, 13.00 Burmese, 13.15–13.45 Thai.

EASTERN SERVICE:		Oct.–March m.b.	Apr.–Sept. m.b.
India, Pakistan, Ceylon	13.45–15.45	16, 13, 11	16, 13, 11
East Africa	14.15–15.45	13	13
N. East*	03.45–05.45	49, 41, 31, 25, 19	49, 41, 31, 25, 19
	10.00–13.00	16, 13, 11	16, 13, 11
	16.00–20.30	25, 19, 13	25, 19, 13
East Africa*	03.45–05.45	31, 25, 19	31, 25, 19
	10.00–13.00	16, 13, 11	16, 13, 11
	16.00–20.30	19, 13	19, 13
North Africa*, Morocco	04.45–05.45	41, 31	41, 31
	10.00–13.00	13	16, 13
	16.00–20.30	31, 25	31, 25
Israel	17.15–17.45	25, 19, 16, 13	19, 16, 13
Persia	10.00–10.15	16, 13, 11	16, 13, 11
	16.00–16.45	19, 16, 13	19, 16, 13

* Rel. by East Mediterranean Rel. Sce. in. South Asian Reg. languages (Sinhalese twice weekly, Tamil twice weekly, Bengali three times weekly) 13.45–14.15. Urdu 14.15–15.00. Hindi 15.00–15.45.

N.: 04.00, 05.00, 18.00, 20.15. – **"English by R.":** 17.05 (Tues., Sat.), 19.40 (Sun., Fri.). – **Hebrew: N.:** 16.30. – **Persian: N.:** 10.00, 16.15. **"English by R.":** 16.05 (Wed.), 16.10 (Sat., Sun.).

SCE. TO E. AFRICA	m.b.	SCE. TO W. AFRICA	m.b.
09.45–10.00 E (Sat. only)	13, 11	11.00–11.45 E	13, 11
10.00–10.15 E (Thurs. only)	13, 11	11.45–12.00 Hausa	13, 11
10.15–10.30 Somali	13, 11	13.30–13.45 Hausa	13, 11
10.30–10.45 Swahili	13, 11	**SCE. TO MAURITIUS**	
10.45–11.00 E (Mo. only)	13, 11	10.45–11.00 E & F	
14.30–14.45 Somali	13, 11	(2nd Tues. ev. month)	13, 11
15.45–16.00 Swahili	13, 11	**SCE. TO C. & SO. AFRICA**	
		10.45–11.00 E (Sun., Mo., Thurs.)	13, 11

SCE. TO RHODESIA & NYASALAND:

10.00–10.15 E (Thurs., Sat.)	13, 11	

SCE. TO MALTA:	Oct.–March	April–Sept.
10.00–10.15 (exc. Thurs., Fri., Sat). Maltese	19, 13, 11	19, 13, 11

SCE. TO FALKLAND ISL.:

22.00–22.30 (Sun. only) E.	19, 16	25, 19, 16

SCE. TO W. INDIES:

23.15–23.45 English	19, 16	19, 16, 13

NORTH AMERICAN SCE.:

Canada, USA, Mexico:

14.15–18.15*	19, 16, 13	16, 13
20.45–21.00 English	25, 19, 16	19, 16

* English exc. 15.15–15.30 (Thurs., Fri.) and 17.05–17.10 (Mo. to Fri.) when French.

SCE. TO ANTARCTIC:

22.00–22.30 (Tues.) E.	31, 25, 19	31, 25

LATIN AMERICAN SERVICE:

C. America, S. Caribbean Area, So. Am. (No. of Amazon)

Spanish: 01.00–02.30	25, 19	25, 19
Portuguese: 23.00–00.15	19, 16	19, 16

Mexico

Spanish: 01.00–02.30, So. Am. (S. of Amazon)	25	25
Spanish: 23.00–00.30	19, 16	19, 16
Portuguese: 23.00–00.15	19, 16	19, 16

N. in Spanish: 23.00, 00.00, 01.00, 02.00. – **N. in Portuguese:** 23.00, 00.00.

BBC FAR EASTERN STATION (Go.)

ADDR.: Thomson Road Studios, P.O. Box 434, Singapore, Malaya.
Cable: Febrocast – **L.P.:** Head of Service: C. P. Albany.
STATIONS: Singapore.

kc/s	m	kc/s	m	kc/s	m	kc/s	m
6110	49.10	9725	30.85	15300	19.61	17870	16.79
6175	48.58	11725	25.59	15310	19.60	17890	16.77
7120	42.13	11780	25.47	15360	19.53	21485	13.96
7135	42.05	11820	25.38	15420	19.46	21640	13.86
7260	41.32	11880	25.25	15435	19.44	21650	13.86
9560	31.38	11930	25.15	17755	16.90	21655	13.86
9625	31.17	11955	25.09	17790	16.86	21720	13.81
9690	30.96						

Prgr. A.: Sce. in English:	H. of tr.:	All the year round m.b.
To No. and Ea. China,	09.15–11.30	25, 19, 16
Honkong, Korea, Japan:	11.30–13.45	19
To So. China, Vietnam, Laos	09.15–11.30	31, 25, 19, 16
Cambodia:	11.30–13.00	19
	13.00–13.45	31, 19
	13.45–16.50*	31, 25
To Indonesia:	09.15–10.30	41, 31, 25
	11.00–11.30	41, 31, 25
To Burma, Thailand:	13.00–13.45	31
	13.45–16.50*	31, 25
To India, Pakistan, Ceylon:	13.00–13.45	25
	13.45–16.00	19
	16.00–16.50*	25, 19
To Australia:	13.00–13.15	31, 16, 13

* Oct.–March closes 16.35 Mo.–Fri., 17.20 Sat.
Apr.–Sept. closes 16.20 Mo.–Fri., 17.05 Sat.

Prgr. B. (Rel. of Far Eastern & Eastern Sce.)

	Language:		
To Japan	Japanese	09.00–09.15	25, 19
		11.00–11.30	25
To China, Vietnam, Laos, Cambodia:	Kuoyu	12.00–12.30	31, 25, 19
	Cantonese	12.30–12.45	31, 25, 19
To Vietnam, Laos & Cambodia:	Vietnamese	11.30–12.00	31, 25, 19
To Indonesia:	Indonesian	10.30–11.00	41, 31, 25
To Burma, Thailand:	Burmese	13.00–13.15	31, 25
	Thai	13.15–13.45	31, 25

To India, Pakistan Ceylon:	South Asian Reg.langua.*	13.45–14.15	25
	Urdu	14.15–15.00	25
	Hindi	15.00–15.45	25

* Sinhalese twice weekly. Tamil twice weekly. Bengali three times weekly.
ANN.: "This is the BBC Far Eastern Station, Singapore".

EAST MEDITERRANEAN RELAY, Cyprus.
Relays of the BBC Eastern Service and General Overseas Service.

	kc/s
To No. Egypt/Israel/Jordan/Lebanon/Syria:	638
To Iraq/Persian Gulf:	6790, 11720
To Israel/Jordan/Arabia:	6170
To Libya/Syria:	6120
To Sudan/Egypt:	9650

03.30–03.45**, 03.45–05.45*, 05.45–08.00**, 09.15–09.45**, 09.45–10.00***, 10.00–13.00*, 13.00–14.15**, 16.00–20.30*.
* Arabic ** General Overseas Service *** English.

VOICE OF AMERICA RELAYS IN GREAT BRITAIN BY THE BBC
ADDR.: Voice of America, Washington 25, D.C., U.S.A.
DAILY PRGR.: **Blue Stars Network:** 14.00–22.00.

14.00–14.30	Georgian	18.00–18.30	Russian
14.30–15.00	Armenian	18.30–19.00	Estonian
15.00–15.30	Russian	19.00–19.30	Russian
15.30–16.00	Ukrainian	19.30–20.00	Polish
16.00–16.30	Russian	20.00–20.30	Russian
16.30–17.00	Lithuanian	20.30–21.00	Czech
17.00–17.30	Russian	21.00–21.30	Russian
17.30–18.00	Latvian	21.30–22.00	Polish

Grey Stars Network: 16.30–22.00.

16.30–17.00	Bulgarian	20.00–20.30	Albanian
17.30–18.00	Rumanian	20.30–21.00	Rumanian
18.30–19.00	Hungarian	21.00–21.15	Serbo-Croat
19.00–19.30	Serbo-Croat	21.15–22.00	Hungarian
19.30–20.00	Bulgarian		

ANN.: The BBC announces its relay of the Voice of America prgr. stating the language and relay frequencies. – V. by QSL-card.

★ GREECE ★

L.T.: GMT+2 h. – L.: Greek. – Rcvrs.: 672.843.

NATIONAL HELLENIC BROADCASTING INSTITUTE
(Ethnikon Idhryma Radhiophonias) (Go., Statutory Body of Public Law). M.w. st.: 10. S.w. st.: 2.
ADDR.: 4 Rigillis St., Athens K. Cable: Radiost Athens.
L.P.: Pres. of the Adm. Council: G. Sophronopoulus. Dir. Gen.: F. Smitt. Dir. Prgr.: A. Prokopiou. Dir. Tec.: B. Aslanides. Dir. For. Rel.: D. Chronopoulus.

HOME SCE.:	kc/s	m	kW		kc/s	m	kW
Athens (Nat.)	728	412.1	150	Comotini*	1403	213.8	5
Athens (2' Prgr.)	1385	217.0	50	Volos*	1484	202.2	0.3
Athens (3' Prgr.)	665	451.2	15	Rhodes*	1493	201.0	5
Corfu*	1007	298.0	50	Patras*	1511	198.5	0.3
Salonika*	1043	287.6	2	Chania	1511	198.5	5

*) Nat. Net. & Reg.
NAT. PRGR.: Wi.: W.: 04.30–08.35, 10.30–13.35, 15.00–22.15. Sun. 04.30–22.15. – Su.: W.: 04.30–08.35, 10.30–13.35, 15.00–23.00. Sun. 04.30–23.00. – N.: Wi.: 05.30, 05.40 (English), 07.00 (W), 12.30 (W), 20.15, 22.00. Su.: 05.15, 05.25 (English), 07.00 (W), 12.30 (W), 20.15, 22.00. – Wrp.: W.: 08.30, 13.30. – Nat. music: 05.30 (Su. 05.45)–07.00, 18.00–18.30.
2' PRGR.: W.: 05.30 (Su. 05.15)–07.15, 08.00–21.30. Sun. 05.30 (Su. 05.15)–21.30 (Light prgrs. only).
3' PRGR.: D. 17.00–22.00 (Serious musical prgr. only).
NAT. NETWORK & REG.: D. Morning, Midday, and Evening Prgr. (Reg. and Rel. National Prgr. 728 kc/s). Appr. h. of tr. as Nat. Prgr.
ANN.: Nat. Prgr.: "Proghramma Ellinikou Ethnikou Dhiktiou" (Greek Nat. Network Prgr.) – 2' Prgr.: "Dhefteron Proghramma" – 3' Prgr.: "Triton Proghramma". – Reg. Prgr.: "Edho... (Athine, Kerkyra, Thessaloniki, Comotini etc.)" (This is... (Athens, Corfu, Salonika, Comotini etc.)
STATION-SIG.: Used by medium wave station of NBI: "Tsopanakos Imouna" (I used to be a shepherd boy), a folk song played on native flute and sheep bells.

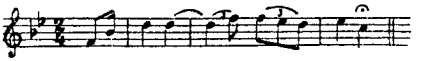
INT.-SIG.: "Musical Box" played on vibraphone. – PUB.: Weekly in Greek: Radhioprogrhamma.
FOREIGN SERVICE: Athens – 7.5/5 kW.

6057 kc/s	49.38 m	7300 kc/s	41.10 m	15345 kc/s	19.55 m		
6177 –	48.56 –	9607 –	31.23 –	17778 –	16.87 –		
7142 –	42.01 –	11718 –	25.60 –	21485 –	13.96 –		

D. PRGR.:		Target area	kc/s	L.
W. 07.00–08.15		Cyprus	9607	Greek [1]
Sun. 05.45–08.15			15345	
D. 09.00–10.00 exc. Mo.		Egypt	15345	Greek
D. 10.30–13.00		Cyprus	9607	Greek
D. 13.15–15.00		N.Ea, So.Eu.	6075	Greek [2]
D. 13.30–15.15		Balkans	15345	[2]
D. 15.30–15.45		USSR	17778	Russian
D. 16.00–17.00		Cyprus	9607	Greek [4]
			15345	
D. 17.15–17.45		No.We.Eu.	15345	French
			21485	English
D. 18.15–18.45		Cyprus	9607	Greek
			11718	
D. 19.00–20.00		No.We.Eu.	15345	Greek
			21485	
D. 22.00–22.30		Mediterranean	15345	Greek [5]
D. 23.00–23.30	[6]		21485	

[1]) News at 07.00. – [2]) Rel. Athens II. – [3]) 13.30–14.00 in Greek. 14.00–15.15 News and comment in Turkish, Yugoslav, Rumanian, Bulgarian and Albanian. – [4]) 16.00–16.20 News dictation. – [5]) News, messages to shipping. – [6]) Rpt. of 22.00–22.30 Prgr. Other prgrs. consist of Nat. music (serious and popular), talks, and features.
ANN.: Gr.: "Edho Radiophonikos Stathmos Athinon Vracheon Kymaton" – E.: "This is Radio Athens, the Voice of Greece" – F.: "Ici Radio Athènes, la Voix de la Grèce".
STATION-SIG.: See Home Sce. – V. by QSL-card or letter.

FORCES BROADCASTING STATIONS
ATHENS (Central)
ADDR.: Forces Central R. Station, 136, Messoghion St., Athens T.6.
STATIONS: 1300 kc/s 230.7 m 1 kW – 7422 kc/s 40.43 m 1 kW
D. PRGR.: W.: 05.00–07.30, 10.00–13.00, 15.00–22.00. Sun. 05.00–22.00. N.: 12.00, 19.00.
ANN.: "Edho Athinae. Kendrikos Radhiophonikos Stathmos Enoplon Dhynameon Helladhos" (This is Athens, the Central Radio Station of the Greek Armed Forces).
STATION-SIG.: The main motif from the march "Greece never dies", played on trumpets.



	kc/s	m	kW	H. of tr.
Florina	7254	41.36	0.5	05.30–07.00, 10.00–13.00, 15.30–18.00
Jannina	7090	42.31	0.3	05.00–07.00, 10.00–13.00, 15.00–20.00
Kavalla	7214	41.58	0.5	05.00–08.00, 10.00–13.00, 15.30–21.00
Kozani	9950	30.19	0.5	05.00–07.00, 10.00–12.30, 16.00–20.00
Larissa	6752	44.43	0.5	05.00–07.00, 10.00–13.00, 16.30–21.00
Salonika	11960	25.08	1	05.00–07.00 (Sun. 08.30), 10.00–13.00, 15.00–21.00
Tripolis	6003	49.97	0.5	05.00–07.00, 09.30–12.30, 15.30–21.00

PRIVATE BROADCASTING STATIONS

Amalias	1385 kc/s	216.6 m	1.25 kW	16.30–21.30
Chios	6590 –	45.52 –	0.1 –	17.00–20.30
Heraklion (Candia)	6480 –	46.30 –	0.06 –	17.00–21.00
Karpenission	6525 –	45.98 –	0.3 –	17.00–21.00
Megara	1186 –	253.0 –	0.06 –	05.30–07.00 10.30–12.30
Mytilini	6240 –	48.07 –	0.1 –	17.00–20.30
Sparta	1236 –	242.7 –	0.05 –	17.30–21.00

VOICE OF AMERICA RADIO STATION IN GREECE
ADDR.: Voice of America, Washington 25, D.C., U.S.A.
STATIONS:
M.W.: Salonika-A 791 kc/s 379.2 m 50 kW: 10.00–13.30, 15.30–23.00.
S.W.: Salonika 35 kW: 14.00–23.00.

kc/s	m	kc/s	m	kc/s	m	kc/s	m
6155	48.74	9520	31.51	11805	25.41	15315	19.59
7260	41.32	9585	31.30	15285	19.63	17800	16.85

DAILY PRGR.: **Medium Wave:**

08.15–10.00	Greek (R. Salonika) Sunday only	19.00–19.30	Serbo-Croat
		19.30–20.00	Bulgarian
10.00–13.30	Greek (R. Salonika)	20.00–20.30	Albanian
15.30–17.00	Greek (R. Salonika)	20.30–21.00	Rumanian
17.00–17.15	Music	21.00–21.15	Greek
17.15–17.30	Greek	21.15–22.15	Greek (R. Salonika)
17.30–18.00	Rumanian	22.15–22.30	Serbo-Croat
18.00–18.30	Bulgarian	22.30–23.00	Hungarian
18.30–19.00	Hungarian		

Short Wave: See U.S.A.
ANN.: "This is the Voice of America Transmitter, Salonika" – INT.-SIG.: Choir of brass playing a 10 note version of "Columbia, the Gem of the Ocean". See U.S.A. – V. by QSL-card. No return postage required.

VOICE OF AMERICA SEABORNE RADIO STATION DODECANESE ISLANDS
Seaborne Radio Station aboard U.S.C.G.C. "COURIER", currently located at the Island of Rhodes.
ADDR.: Voice of America, Washington 25, D.C., U.S.A.
STATIONS:
M.W.: Courier-A 1259 kc/s 238.3 m 150 kW: 04.00–06.30, 16.00–22.30.
S.W.: Courier 35 kW: 04.00–06.30, 14.00–22.30.

kc/s	m	kc/s	m	kc/s	m	kc/s	m
7125	42.11	9530	31.48	11760	25.51	15270	19.65

DAILY PRGR.:

04.00–06.00	Arabic	15.00–15.30	Russian	16.30–17.00	Turkish
06.00–06.30	English	15.30–16.00	Ukrainian	17.00–21.00	Arabic
14.00–14.30	Georgian	16.00–16.30	Persian	21.00–22.30	English
14.30–15.00	Armenian				

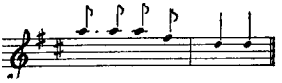
ANN.: "This is the Voice of America Transmitter at Rhodes". – INT.-SIG.: Choir of brass playing a 10 note version of "Columbia, the Gem of the Ocean". See U.S.A. – V. by QSL-card. No return postage required.

★ GREENLAND (Danish Territory) ★

L.T.: W. Coast: GMT ÷ 3 h. Thule area: GMT ÷ 4 h. – L.: Greenlandic, Danish. – Rcvrs: 4.000.
GRØNLANDS RADIOFONI (Go.)
ADDR.: Grønlands Radiofoni, Godthåb. – Cable: Radiofoni.
L.P.: Dir. Broadc.: Fr. Nielsen.
HOME SCE.: W.: 10.30–11.20, 13.00–17.00, 20.30–02.05. Sun.: 11.30–12.25, 15.00–16.30, 17.00–17.35, 20.00–20.35, 21.30–01.35.

Godthåb	570 kc/s	526 m	25 kW
Godhavn	650 –	461.5 –	5 –
Frederikshåb	820 –	365.9 –	5 –

N.: W.: 15.30, 21.40. Sun. 22.00. – Wrp.: W.: 11.15, 16.00, 21.15, 02.00. Sun.: 12.25, 16.30, 22.30. – 1/6–1/10 Prgrs. in Norwegian: Sun. 19.00–20.00. In Faroese: 20.50–21.30.
ANN.: "Kalatdlit nunata radiua – Grønlands radio...". – V. by QSL-card.
INT.-SIG.:



ANGMAGSSALIK RADIO
ADDR.: Angmagssalik Radiostation, Angmagssalik.
STATION: OZL 1500 kc/s 200 m – 0.75 kW 7570 kc 39.63 m 2 kW.
D. PRGR.: W.: 14.00–14.50. For communication with ships: 500 and 2230 kc.
ARMED FORCES RADIO & TV SCE: see USA.

★ HOLLAND ★

L.T.: GMT+1 h. – L.: Dutch. – Rcvrs.: 2.973.888.
HOME SERVICE
ADDR.: Stiching Nederlandsche Radio Unie, The Dutch Radio Union, P.O. Box 150, Hilversum. – Cable: Radiounie.
The Dutch programmes for home are provided by the following broadcasting societies:
A.V.R.O.: Algemeene Vereenigung Radio-Omroep, Headoffice Amsterdam, Keizersgracht 107, Studios: Hilversum, 's-Gravelandseweg 52. – L.P.: Chairman: Jhr. Th. Röell. Secr. H. A. Wassenbergh LL.D. Treasurer: E. A. Timmer. Man. Dir.: D. Repko.
K.R.O.: Katholieke Radio-Omroep. Emmastraat 52, Hilversum. – L.P.: Chairman: Prof. Dr. J. B. Kors O.P. Secr.: Dr. Ir. L. J. N. van der Hulst. Treasurer: C. Burger. Man. Dir.: Drs. A. J. J. v. d. Made.
N.C.R.V.: Nederlandsche Christelijke Radio Vereenigung, Schuttersweg 8, Hilversum. – L.P.: Chairman: A. B. Roosjen LL.D. Secr.: C. A. Keuning. Man. Dir.: A. H. v. d. Veen LL.D.
V.A.R.A.: Vereenigung van Arbeiders Radio-Amateurs, Heuvellaan 33, Hilversum. – L.P.: Chairman: J. A. W. Burger LL.D. Secr.-Treas.: J. W. Lebon. Prgr. Secr.: J. B. Broeksz. Secr.: J. W. Rengelink.
V.P.R.O.: Vrijzinnig Protestantse Radio-Omroep, 's-Gravelandseweg 65, Hilversum. – L.P.: Chairman: Dr. J. A. de Koning. Secr.: Dr. E. D. Spelberg. Treasurer: Ir. K. Kooy.
Central Address for Prgr. Publications: Centraal Bureau voor den Omroep in Nederland, Hilversum, P.O. Box 52.
BOARD OF THE NEDERLANDSCHE RADIO-UNIE: Chairman: Prof. Dr. J.B.Kors O.P. Secr.: J.W.Lebon. Treasurer: Ihr.Th.Röell. Members: Dr. J.A.de Koning, J.B.Broeksz, Drs. A.J.J. v. d. Made, D.Repko, A B.Roosjen LL.D., A.H. v. d. Veen LL.D
STATIONS:
Hilversum I: 746 kc/s 402.1 m 120 kW – II: 1007 kc/s 297.9 m 120 kW
Rel.: Hengelo, Hoogezand, Hulsberg: 1594 kc/s 188.2 m5 kW.
FM: Hoogezand: 91.8, 94.9 mc/s 15 kW – Hulsberg: 9.5,1 97.5 mc/s 5 kW – Irnsum: 88.2, 96.0 mc/s 15 kW – Mierlo: 93.5, 99.9 mc/s 15 kW – Markelo: 97.2, 98.3 mc/s 50 kW.

RADIO NEDERLAND

HILVERSUM - HOLLAND

daily broadcasts in

AFRIKAANS
ARABIC
DUTCH
ENGLISH
INDONESIAN
SPANISH

news, commentaries, actualities, feature-programmes, music – 100 K/W transmitters – 11, 13, 16, 19, 25, 31, 49 metre bands – programme bulletins free on application.

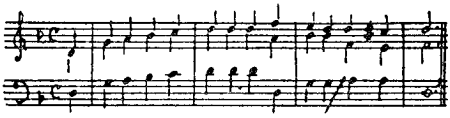
Radio stations the world over are invited to apply to our

TRANSCRIPTION SERVICE for free recordings of

- serious and light music
- entertainment-programmes
- feature-spots, coverages
- topical talks, interviews

ALL TRANSCRIPTION PROGRAMMES are adapted to suit the requirements of the areas served.

D. PRGR.: Hilversum I & II: W. 06.00–23.00. Sun. 07.00–23.00.
N.: 1st and 3rd quarter: Hilversum I: D: 06.00 (W), 07.00, 12.00, 17.00 (W), 18.45 (Sun.), 22.00. – Hilversum II: D: 06.00 (W), 07.00, 12.00, 16.50 (Sun.), 18.00 (W), 22.00.
2nd and 4th quarter: Hilversum I as Hilversum II – Hilversum II as Hilversum I.
INT.-SIG.: A tune from "Valerius Gedenckklank" "O Nederland let op u saeck, de tyt en stont is daer".



RADIO NEDERLAND WERELDOMROEP (non comm.)
ADDR.: Radio Nederland, P.O. Box 222, Hilversum. Main-Office: 's-Gravelandseweg 76, Hilversum. – **Cable:** "Mundivox".
L.P.: Dir. Gen.: H.J. van den Broek. Deputy Dir. Gen.: C.J. Strop. Directors: Central Prgr. Sce.: J.W. Acda. N. Sce.: Dr. M.P. Bajetto. Dutch Sce.: F. Thors. International Sce.: H.J.P.J. van Eijndhoven. Transcription Sce.: Lod. Prins. Dir. Tec.: V.J. de Grijs. Producer "Happy Station" prgr.: Edw. Startz.
STATIONS: Lopik WO1 50 kW, WO2, 3, 4 100 kW, WO5 10 kW.

kc/s	m	kc/s	m	kc/s	m	kc/s	m
25610	11.71	17775	16.88	15220	19.71	9745	30.79
21480	13.96	15445	19.43	11950	25.10	9715	30.88
17810	16.84	15425	19.45	11915	25.18	9590	31.28
17800	16.85	15365	19.52	11730	25.58	6025	49.79
						6020	49.83

OPERATION SCHEDULE:
Spec. abbrev.: N. An. = Netherlands Antilles. N. G. = Netherlands New Guinea. Su. = Surinam.
Wavelengths between brackets are possible substitutes.

Languages, H. of tr.	Areas served	1. Per.[1] m.b.	2. Per.[2] m.b.
Afrikaans:			
W. 17.30–18.00	So. Af.	13, 16, 19 (25)	13, 16, 19
Arabic:			
W. 16.30–17.25	M.Ea., No.Af.	13, 16, 19	13, 16, 19
Dutch:			
09.45–11.45	Au, NZ, NG.	11, 13, 16	11, 13, 16
Sun. 08.30–10.25	Ind., Af.	11, 13 (16)	11, 13 (16)
W. 13.00–15.20	Ind.	13, 16, 19 (11)	13, 16, 19 (11)
Sun. 13.00–15.50			
W. 18.00–20.00	Af., Eu.	13, 16, 19	13, 16, 19
Sun. 18.00–21.00			
D. 22.30–01.20	No.Am., So.Am.	19, 25, 31	13, 16, 25
	N.An., Su.	(16, 49)	(19)
English:			
D. exc. Mo. 02.30–03.10	No.Am., NZ.	25, 31, 49 (19)	25, 31, 49 (19)
W. 09.00–09.40	Au., N.Z.	11, 13, 16	11, 13, 16
W. 15.45–16.25	So.As., Af.	13, 16, 19	13, 16, 19
W. 21.15–21.55	Eu., No.Am.	19, 25 (31)	13, 16, 19
Indonesian:			
D. 12.00–13.00	Ind.	13, 16, 19 (11)	13, 16, 19 (11)
Spanish:			
D. exc. Mo. 01.30–02.10	So.Am.	19, 25, 31 (16)	16, 19, 25
D. exc. Mo. 03.15–03.55	C. Am.	25, 31, 49 (19)	25, 31, 49
W. 20.15–20.55	Sp.	25, 31, 49 (19)	25, 31, 49
Happy Station:			
Sun. 10.30–11.58	As., Au., NZ.	11, 13, 31, (16)	13, 16 (11)
Sun. 16.00–17.30	M.E.Af., Eu.	13, 16, 19	13, 16, 19
Sun. 21.00–22.30	So.Am., Sp.	16, 19, 25 (31)	16, 19, 25
Mo. 02.00–03.30	No.Am., NZ	25, 31, 49 (19)	25, 31, 49

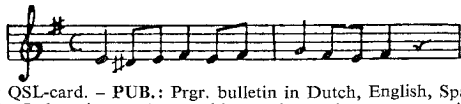
[1]) Oct.–March [2]) April-Sept.

PROGRAMME SCHEDULE:
NATIONAL MUSIC:
The Netherlands Composers: Between 17.40–18.00 (Tues.) in **Afrikaans**; occasionally in **Arabic**, but not on fixed hours.
The Amsterdam Concertgebouw Orchestra: Thurs.: 10.10–11.10, 13.25–14.25, 18.25–19.25, 22.50–23.50 in **Dutch, English, Spanish**; Sun. 12.10–12.40 in **Indonesian.**
The Netherlands Composers (1st Mo./Tues. of each month): 09.12–09.32, 15.57–16.17, 21.27–21.47, 02.42–03.02 in **English**; 20.27–20.52, 01.42–02.07, 03.27–03.52 in **Spanish.**
N., COMM.: Afrikaans: 17.31 (W). **Arabic:** 16.32 (W). **Dutch:** W. 09.45, 13.00, 14.50, 18 00, 22.30, D. 01.00. Sun. 10.10, 15.10, 18.00, 20.10, 22.30.
LISTENERS' REQUEST PRGR.: Afrikaans: Mo. 17.40. **Arabic:** Wed. 16.40, Sat. 16.54. **Dutch:** Fri. 10.05, 13.20, 18.20, 23.05. **English:** Thurs. 09.12, 15.57, 21.27. Fri. 02.42. **Indonesian:** Sat. 12.20, Tues. 12.25. **Spanish:** Thurs. 20.27, Fri. 01.42, 03.27.
MAILBAG: Afrikaans: Mo. 17.40. **Arabic:** Wed. 16.40, Sat. 16.54. **Dutch:** Fri. (fortnightly) letterbox 10.25, 13.40, 18.40, 23.25. **English:** Tues. (fortnightly) 09.26, 16.11, 21.41. Wed. 02.56. **Indonesian:** Sun. 12.40. **Spanish:** Thurs. 20.27, Fri. 01.42, 03.27.

DX-PROGRAMMES: English: from time to time.
PRODUCTION "HAPPY STATION": The 4 "Happy Station" Sun. prgrs., 3 in **English** and 1 in **Spanish** and **Portuguese,** bring a wide range of carefully selected music catering for all tastes. Short features of universal interest, descriptive commentaries and educational quizzes supplement the 90 min. programmes. In addition each transmission carries an international "mailbag" with calls to all parts of the globe. 1959 is the 31st year of the "Happy Station"s worldwide broadcasting. The "Happy Station" prgr. **EVERY SUNDAY:** (for frequencies see operating sched.)

10.30–11.58	F.E., Au., N.Z. Eu.	21.00–22.30	So. Am., Sp.
16.00–17.30	So.As., Af., Eu.	Mo. 02.00–03.30	No. Am., Ca.

ANN.: Dutch: "Hier Radio Nederland in Hilversum". **E.:** "This is the International Service of Radio Nederland in Hilversum, Holland". **Ind.:** "Disini Hilversum Siaran Indonesia Radio Nederland". – **Sp.:** "Aqui Radio Nederland de Hilversum, Holanda". – **Arabic:** "Huna Hilversum – al idha'atu'l hulandiya bi'l-lughati'l-Arabiya".
GENERAL INT.-SIG.: Old Dutch folk-song called: "Merk toch hoe sterck" played on carillon or celesta on all frequencies.



V. by QSL-card. – **PUB.:** Prgr. bulletin in Dutch, English, Spanish, Arabic, Indonesian. – A pamphlet on improving s.w. reception in Dutch, English, Spanish, Indonesian. Also a diagram for building a s.w. converter in Dutch, English. All the pub. are sent free of charge on application.
TRANSCRIPTION SERVICE. A free sce. to foreign sts. Issues complete prgrs. about Holland and Dutch life both informative and musical, and adapted to suit the requirements of the areas served.

★ HUNGARY ★

L.T.: GMT + 1 h. – **L.:** Hungarian. – **Rcvrs.:** 1.894.546.
MAGYAR RADIO ES TELEVIZIO (Go.)
ADDR.: Brody Sandor-S.u. 5–7, Budapest VIII. – **Cable:** Magyarrádió. – **L.P.:** Pres. & Gen. Mgr.: L. Gács. Vice-Pres. & Dir. Prgr.: Dr. T. Csabai. Dir. Adm.: G. Mike. Dir. Tec.: L. Hermann. Dir. Foreign Rel.: Mrs. M. Solymár.

HOME SERVICE

	Name	kc/s	m		H. of tr.
Kossuth, Budapest	539	556.5	135		W. 03.30–23.20. Sun. 05.00–23.30
Petöfi II, Budapest	872	344.0	20/50	–	D. 05.00–07.10,
Petöfi I, Szolnok	1187	252.7	135	–	12.50–22.00
Balatonszabadi	1250	240.0	135	–	
Nyiregyháza	1340	223.8	25	–	D. 17.00–18.00
Györ	1340	223.8	0.4	–	W. 17.00–18.00,
Szombathely	1340	223.8	25	–	Sun. 08.00–09.00
Pécs	1340	223.8	15	–	D. 15.30–18.00
Szolnok	1340	223.8	0.4	–	D. 16.00–17.00
Miskolc	1594	189.0	15	–	D. 17.00–18.00
Magyaróvár	1594	189.0	0.4	–	W. 17.00–18.00, Sun. 08.00–09.00

R. Kossuth: N., Wrp.: W.: 03.30, 09.00, 11.00, 15.00, 17.00, 19.00, 21.00, 23.00. Sun.: 07.00, 11.00, 16.00, 19.00, 21.00, 23.00.
R. Petöfi: N.: W.: 07.00, 13.00, 18.00, 20.00. – **Mbg.: R. Kossuth:** Mo. 12.00. Tues. 09.10. Wed. 14.45. **R. Petöfi:** Thurs. 18.15. **FM:** 89.2 mc/s 3 kW: D. 17.00–21.00. Mo.–Fri. also 13.00–15.00.
ANN.: "Rádió Kossuth, Budapest" – "Rádió Petöfi, Budapest".

FOREIGN SERVICE
STATIONS: 100 kW.
1250 kc/s 240.0 m – 6195 kc/s 48.43 m – 7220 kc/s 41.55 m
9833 kc/s 30.51 m – 11910 kc/s 25.19 m

EUROPEAN SERVICE

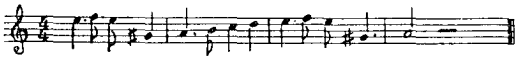
English		**Hungarian**	
20.00–20.30	9833, 7220 6195	19.00–19.30	9833, 7220 6195, 1250
21.30–22.30	7220, 6195	21.00–22.00	9833, 1250
French		14.00–16.00[1])[2])	9833, 7220 6195, 1250
19.30–20.00	9833, 1250	**Italian**	
21.00–21.30	7220, 6195	17.30–18.00	9833, 7220 6195, 1250
13.30–14.00[1])[2])	9833, 11910	20.30–21.00	6195, 1250
German		**Spanish**	
18.00–19.00	6195, 1250	20.30–21.00	9833, 7220
20.00–20.30	1250	22.00–23.00	9833
Greek		**Turkish**	
17.00–17.30	9833, 7220 6195, 1250	16.30–17.00	9833, 7220 6195, 1250
19.30–20.00	7220, 6195	18.30–19.00	9833, 7220
12.00–13.00[1])	9833, 11910	11.00–12.00[1])[2])	9833, 11910
15.30–16.00[3])	9833, 7220 1250		

[1]) music and Sun. only. [2]) greetings from home and afar.
[3]) Sat. only.

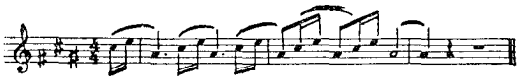
NORTH AMERICAN SCE.
English
00.00–01.00 9833, 7220, 11910
03.00–04.30 9833, 7220, 11910
Hungarian
23.00–24.00 9833, 7220, 1250, 11910
01.00–01.30 9833, 7220, 11910
04.30–05.00 9833, 7220, 11910

LATIN AMERICAN SCE.
Spanish
01.30–02.00 9833, 7220, 11910
02.30–03.00 9833, 7220, 11910
Hungarian
02.00–02.30 9833, 7220, 11910

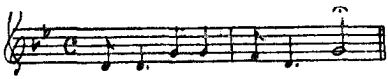
ANN.: E.: "This is Budapest, Hungary". F.: "Ici Budapest".
INT.-SIG.: R. Kossuth:



R. Petöfi:



Foreign Service: Old Hungarian Folksong "From the Tisza, past the Danube":



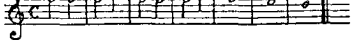
V. by QSL-card and letter. – PUB.: "Rádió és Televizió Ujság" (weekly).

★ ICELAND ★

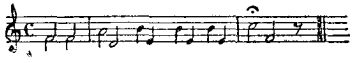
L.T.: GMT + 1 h. (Su. = GMT). – L.: Icelandic. – Rcvrs.: 45.000.
ICELAND STATE BROADCAST SERVICE
RIKISUTVARPID (Go.)
ADDR.: Box 1026 Reykjavik. Cable: Utvarp.
L.P.: Chairman of Progr. Council: B. Groendal. Dir. Gen.: V. Th. Gislason.
HOME SERVICE:
09.00–10.00, 13.00–14.15, 16.30–17.30, 19.30–24.00.

Reykjavik TFU	182 kc/s	1648 m	100 kW		
Eidar TFE	611 –	491 –	5 –	1	N.: 09.30, 13.25,
Hoefn	665 –	451.2 –	0.7 –	1	16.55, 19.00, 21.00
Akureyri	737 –	407.1 –	1.5 –	1	1 Rel. TFU.

FOREIGN SERVICE in Icelandic:
Reykjavik TFJ 12175 kc/s 24.64 m 7 kW: D. 21.00–22.00. Sun. also 13.15–14.15 to No.Eu.
ANN.: "Utvarp Reykjavik". – INT.-SIG.: Home Sce.:



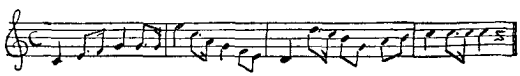
Foreign Sce.:



V. by QSL-card. R.p.
ARMED FORCES RADIO TELEVISION SCE.: see U.S.A.

★ IRELAND ★

L.T.: GMT (Su. GMT+1 h.). – L.: Irish, English. – Rcvrs.: 525.000.
RADIO EIREANN (Go.)
ADDR.: Gen. Post Office, Dublin. Cable: Radioeireann.
L.P.: Chairman R. Eireann Council: L. Brennan. Dir. Broadc.: M. Gorham. Controller of Prgr.: R. Farren. Adm.: Doherty. Dir. Tec.: J. O'Keefe.
HOME SCE.: W.: 08.00–09.15, 13.00–14.30, 17.00–23.30. Sun.: 10.25–11.15, 12.30–23.30.
Athlone 566 kc/s 530 m 100 kW – Dublin 1250 kc/s 240 m 5 kW
Cork 1250 – 240 – 5 –
N., Wrp.: English: 08.00 (W), 09.00 (W), 13.30 (W), 18.30, 22.15. – Irish: 18.00, 22.00 (W).
Wrp.: Sun. 10.25. – Irish Music: Sat. 20.30–21.00. – Request: (Hospitals) Wed.: 13.00–13.30, 13.45–14.30.
ANN.: "Radio Eireann". – INT.-SIG.: Musical Box playing 4 bars of Irish Air "O Donnell Abu". – V. by letter.



★ ITALY ★

L.T.: GMT + 1 h. – L.: Italian. – Rcvrs.: 7.009.074.
RAI – RADIOTELEVISIONE ITALIANA
(State Service granted by public act to RAI)
ADDR.: Via del Babuino 9, Roma. Cable: "Raidirro".
L.P.: Pres.: Prof. Antonio Carrelli. Vice Pres.: Hon. Luigi Bennani Man. Dir.: Ing. Marcello Rodino. Dir. Gen.: Dr. Rodolfo Arata. Vice Dir. Gen.: Dr. Marcello Bernardi. Gen. Secretary (Dir. Foreign Rel.): Dr. Gian Franco Zaffrani. Dir. Adm.: Dr. Bruno Vasari. Dir. Prgr. (Radio): Maestro Giulio Razzi. Subdir. of Prgr.: (Radio): Maestro Mario Labroca. Dir. Prgr. (TV): Dr. Sergio Pugliese. Dir. Radio News: Dr. Antonio Piccone Stella, Tec. Dir. (Radio): Eng. Gino Castelnuovo, Dir. Tec. (TV): Eng. Sergio Bertolotti. Co-Dir. Gen. Aff.: Dr. Luigi Beretta, Dr. Pio Casali. Chief Pers.: Dr. Pier Antonio Milone, Directors "Radiocorriere": Eng. Vittorio Malinverni, Dr. Eugenio Bertuetti.
HOME SCE.: No powers indicated owing to pending changes.

M. Wave	Nat. prgr. kc/s	2 prgr. kc/s	3 prgr. kc/s
Aosta 1)		1115	
Alessandria 1)		1448	
Biella 1)		1448	
Cuneo 1)		1448	
Torino 1)	656	1448	1367
Como 2)		1448	
Milano 2)	899	1034	1367
Sondrio 2)		1448	
Bolzano 3)	656	1484	1367
Bressanone 3)		1484	
Brunico 3)		1484	
Merano 3)		1484	
Trento 3)	1331	1448	
Belluno 4)		1448	
Cortina 4)		1448	
Venezia 4)	656	1034	1367
Verona 4)	1578	1448	1367
Vicenza 4)		1484	
Gorizia 5)		1484	
Trieste 5)	818	1115	1594
Udine 5)	1331	1448	
Trieste A 5)	980		
(autonoma in sloveno)			
Genova 6)	1331	1034	1367
La Spezia 6)	1578		
Savona 6)		1484	
S. Remo 6)		1448	
Bologna 7)	1331	1115	1367
Arezzo 8)		1484	
Carrara 8)	1578		
Firenze 8)	656	1448	1367
Livorno 8)			1367

M. Wave	Nat. prgr. kc/s	2 prgr. kc/s	3 prgr. kc/s
Pisa 8)		1115	1594
Siena 8)		1448	
Perugia 9)	1578		
Terni 9)	1578		
Ancona 10)	1578	1448	
Ascoli P. 10)		1484	
Roma 11)	1331	845	1367
Aquila 12)	1578	1484	
Campobasso 12)		1448	
Pescara 12)	1331	1034	
Teramo 12)		1448	
Avellino 13)		1484	
Benevento 13)		1448	
Napoli 13)	656	1034	1367
Salerno 13)		1448	
Bari 14)	1331	1115	1367
Brindisi 14)	1578		
Foggia 14)		1448	
Lecce 14)	1578	1448	
Taranto 14)	1578	1448	
Potenza 15)	1578	1448	
Catanzaro 16)	1578	1448	
Cosenza 16)	1578	1484	
Reggio C 16)	1331		
Agrigento 17)		1448	
Catania 17)	1331	1448	1367
Caltanissetta 17)	566	1448	
Messina 17)		1115	1367
Palermo 17)	1331	1448	1367
Cagliari 18)	1061	1448	
Nuoro 18)	1578	1484	
Sassari 18)	1578	1448	

FM	Nat. prgr. mc/s	2 prgr. mc/s	3 prgr. mc/s
Aosta 1)	93.5	97.6	99.7
Candoglia 1)	91.1	93.2	96.7
Courmayeur 1)	89.3	91.3	93.2
Domodossola 1)	90.6	95.2	98.5
Mondovi 1)	90.1	92.5	96.3
Plateau Rosa 1)	94.9	96.9	98.9
Premeno 1)	91.7	96.1	99.1
Torino 1)	98.2	92.1	95.6
Sestriere 1)	93.5	97.6	99.7
Villar Perosa 1)	92.9	94.9	96.9
Bellagio 2)	91.1	93.2	96.7
Como 2)	92.3	95.3	98.5
Gardone Val Trompia 2)	91.5	95.5	98.7
Milano 2)	90.6	93.7	99.4
Monte Creò 2)	87.9	90.1	92.9
Monte Penice 2)	94.2	97.4	99.9
Sondrio 2)	88.3	90.6	95.2
S. Pellegrino 2)	92.5	95.9	99.1
Stazzona 2)	89.7	91.9	94.7
V. S. Giacomo 2)	91.7	96.1	99.1
Bolzano 3)	95.1	97.1	99.5
B.goValSugana 3)	90.1	92.1	94.4
Cima Penegal 3)	92.3	96.5	98.9

FM.	Nat. prgr. mc/s	2 prgr. mc/s	3 prgr. mc/s
Madonna di Campiglio 3)	95.7	97.7	99.7
Maranza 3)		91.1	
Marca Pusteria 3)	89.5	91.9	94.3
Mione 3)	89.5	91.7	94.7
Paganella 3)	88.6	90.7	92.7
Plose 3)	90.3	93.5	98.1
Rovereto 3)	91.5	93.7	95.9
S. Giuliana 3)	95.1	97.1	99.1
Val Gardena 3)	93.7	95.7	97.7
Val Venosta 3)	93.9	96.1	98.7
Alleghe 4)	89.3	91.3	93.3
Agordo 4)	95.1	97.1	99.1
Asiago 4)	92.3	94.5	96.5
Col Visentin 4)	91.1	93.1	95.5
Cortina 4)	92.5	94.7	96.7
M. Celentone 4)	90.1	92.1	94.4
Monte Venda 4)	88.1	89.9	89
Pieve di Cadore 4)	93.9	97.7	99.7
Gorizia 5)	89.5	92.3	98.1
Tolmezzo 5)	94.4	96.5	99.1
Trieste 5)	91.3	93.5	96.3
Udine 5)	95.1	97.1	99.7
Bordighera 6)	89	91.1	95.9

FM	Nat. prgr. mc/s	2 prgr. mc/s	3 prgr. mc/s
Genova 6)	89.5	94.9	91.9
La Spezia 6)	89	93.2	99.4
Monte Beigua 6)	94.5	91.5	98.9
Monte Bignone 6)	90.7	93.2	97.5
Polcevera 6)	89	91.1	95.9
Bologna 7)	90.9	93.9	96.1
Carrara 8)	91.3	93.5	96.1
Garfagnana 8)	89.7	91.7	93.7
Lunigiana 8)	94.3	96.9	99.1
M. Argentario 8)	90.1	92.1	94.3
Monte Serra 8)	88.5	90.5	92.9
S. Cerbon 8)	95.3	97.3	99.3
S. Marcello Pistoiese 8)	94.3	96.9	98.9
Monte Peglia 9)	95.7	97.7	99.7
Spoleto 9)	88.3	90.3	92.3
Terni 9)	94.9	96.9	98.9
Ascoli Piceno 10)	89.1	91.1	93.1
Monte Conero 10)	88.3	90.3	92.3
Monte Nerone 10)	94.7	96.7	98.7
Campo Catino 11)	95.5	97.3	99.5
Monte Favone 11)	88.9	90.9	92.9
Roma 11)	89.7	91.7	93.7
Sezze 11)	94.9	96.9	98.9
Terminillo 11)	90.7	94.5	98.1
C. Imperatore 12)	97.1	95.1	99.1
Fucino 12)	88.5	90.5	92.5
Pescara 12)	94.3	96.3	98.3
Sulmona 12)	89.1	91.1	93.1
Teramo 12)	87.9	89.9	91.9
Benevento 13)	95.3	97.3	99.3
Golfo Salerno 13)	95.1	97.1	99.1

FM	Nat. prgr. mc/s	2 prgr. mc/s	3 prgr. mc/s
Monte Faito 13)	94.1	96.1	98.1
Monte Vergine 13)	87.9	90.1	92.1
Napoli 13)	89.3	91.3	93.3
Martina Franca 14)	89.1	91.1	93.1
M. Caccia 14)	94.7	96.7	98.7
M. Sambuco 14)	89.5	91.5	93.5
M. S. Angelo 14)	88.3	91.9	93.9
Lagonegro 15)	89.7	91.7	94.9
Pomarico 15)	88.7	90.7	92.7
Potenza 15)	90.1	92.1	94.1
C. Spartivento 16)	95.6	97.6	99.6
Catanzaro 16)	94.3	96.3	98.3
Crotone 16)	95.9	97.9	99.9
Gambarie 16)	95.3	97.3	99.3
Monte Scuro 16)	88.5	90.5	92.5
Roseto Capo Spulico 16)	94.5	96.5	98.5
Alcamo 17)	90.1	92.1	94.3
Modica 17)	90.1	92.1	94.3
M. Cammarata 17)	95.9	97.9	99.9
M. Lauro 17)	94.7	96.7	98.7
M. Soro 17)	89.9	91.9	93.9
Noto 17)	88.5	90.5	92.5
Palermo 17)	94.9	96.9	98.9
Trapani 17)	88.5	90.5	92.5
M. Limbara 18)	88.9	95.3	99.3
M. Serpeddi 18)	90.7	92.7	96.3
P. Badde Ur. 18)	91.3	93.3	97.3
S. Antioco 18)	95.5	97.7	99.5
Sassari 18)	90.3	92.3	94.5

1) Piemonte. 2) Lombardia. 3) Trentino Alto Adige. 4) Veneto. 5) Venezia, Giulia, Friuli. 6) Liguria. 7) Emilia, Romagna. 8) Toscana. 9) Umbria. 10) Marche. 11) Lazio. 12) Abruzzi, Molise. 13) Campania. 14) Puglia. 15) Bacilicata. 16) Calabria. 17) Sicilia. 18) Sardegna.

Short Waves:

Nat. Prgr. Caltanissetta 6060 kc/s 49.50 m 9515 kc/s 31.35 m
2. Prgr. Caltanissetta 7175 kc/s 41.81 m
3. Prgr. Roma 3995 kc/s 75.09 m

D. PRGR.:
National Prgr.: D. 05.40–23.00. – **N.:** 06.00, 07.00, 12.00, 13.00, 19.30, 22.15. – **Religious:** Sun. 06.30 (Evangelistic), 08.00 (Music), 08.30 Mass from R. Vaticana.
2. Prgr.: D. 06.30 (Sun. 06.50)–22.30. – **N.:** 06.30 (W), 12.30, 14.00 (W), 19.00 (W), 22.15 (W). – **Wrp.:** 14.00.
3. Prgr.: W. 18.00–23.00, Sun. 14.30–17.00, 18.00–23.00.
N.: D. 20.00.
Night Prgr. (Notturno dall'Italia): 22.35–05.40.
Music followed by newscasts in Italian, French, English, German from R. Roma 2 on 845 kc/s and **9515 kc/s.**
ANN.: "RAI – Radiotelevisione Italiana – Stazioni del (Programma Nazionale, Secondo Programma, Terzo Programma)". Night Prgr.: "RAI – Radiotelevisione Italiana – Stazione di Roma 2 che trasmette sulla lunghezza d'onda di m. 355 pari a kc/s 845. – "Notturno dall' Italia". – **INT.-SIG.:** Bird chirping. – **V.** by QSL-card.

FOREIGN SERVICE

Radio Roma 50/60/100 kW.

kc/s	m	kc/s	m	kc/s	m	kc/s	m
5960	50.34	9575	31.33	11905	25.20	17740	16.91
6010	49.92	9630	31.15	15120	19.84	17770	16.88
6060	49.50	9710	30.90	15325	19.58	17800	16.85
7275	41.24	11800	25.42	15400	19.48	21560	13.91
7290	41.15	11810	25.40				

EUROPEAN SERVICE "Rome calling Europe"

Albanian kc/s
13.30–13.45 7290, 9575
17.45–18.00 6010, 9575
Bulgarian
20.55–21.15 6010, 7290, 9575
Czech
13.15–13.30 6010, 9630, 11810
18.25–18.35 5960, 7275, 9710
20.25–20.40 5960, 7275
Danish/Swedish/Italian*
17.35–17.55 5960, 7275, 9710
English
18.00–18.20 6010, 9575
French
18.20–18.40 6010, 9575
German kc/s
13.30–13.45 6010, 9630, 11810
18.10–18.25 5960, 7275, 9710 for Austria
20.40–21.00 5960, 7275
Greek
19.05–19.25 5960, 7275
Hungarian
13.15–13.30 7290, 9575
21.35–21.55 6010, 7290, 9575
Lithuanian
19.50–20.10 5960, 7275
Polish
13.00–13.15 6010, 9630, 11810
17.35–17.45 6010, 9575
20.10–20.25 5960, 7275
Portuguese kc/s
21.30–22.00 5960, 7275
Roumanian
13.00–13.15 7290, 9575
20.35–20.55 6010, 7290, 9575
Russian
03.30–03.45 6010, 7275, 9575 9630, 11810
Serbian
21.15–21.35 6010, 7290, 9575
Slovak
13.45–14.00 6010, 9630, 11810
21.00–21.15 5960, 7275
Slovene kc/s
13.45–14.00 7290, 9575
Spanish
22.00–22.25 5960, 7275
Turkish
19.25–19.50 5960, 7275
Ukrainian
18.40–19.00 6010, 9575
Belgian/Esperanto/English & French**
17.55–18.10 5960, 7275, 9710

* **Danish:** Tues., Thurs., Sat.; **Swedish:** Mo., Wed., Fri.; **Italian:** Sun.
** For Belgium (F.) Sat.; **Esperanto:** Tues., Wed., Fri.; **English & French:** Mo., Thurs.

GENERAL OVERSEAS SERVICE
AU, NZ, PACIFIC
English kc/s
09.00–09.40 15325, 17800, 21560
Italian
06.50–07.45 11905, 15325, 17740 17800, 21560
20.00–20.30 9575, 9710, 11810
22.00–22.25 9575, 9710, 11810

SO.EA.ASIA & THE FAR EAST
Chinese
09.45–10.05 15120, 17800
English, French
10.40–11.20 15400, 17770, 21560
Indonesian
09.45–10.05 15325, 17770, 21560
Japanese
10.10–10.35 15120, 15325, 17770 17800, 21560

SO. ASIA
Hindi
15.15–15.30 11905, 15325, 15400 17770, 21560
Urdu
14.50–15.05 11905, 15325, 15400 17770, 21560
Bengali
15.05–15.15 11905, 15325, 15400 17770, 21560

AFRICA & NEAR EAST
Arabic
06.30–06.45 6010, 9575, 11905 15400, 17800
11.25–12.00 9710, 11810, 15325 15400, 17800
19.05–19.55 6010, 9575, 11810
English
09.20–09.40 11905, 15120
French
09.00–09.20 11905, 15120
Italian
10.40–11.20 15325, 17800
16.00–17.30 9575, 11810, 15325 17770, 21560
Persian
14.25–14.45 11905, 17770

SOUTH AFRICA
English
15.35–15.55 17770, 21560

C. & S. AMERICA
Italian
18.40–19.00 15325, 17770, 21560
Portuguese
00.30–00.50 9630, 9710, 11810
Spanish
00.50–01.10 9630, 9710, 11810
03.05–03.25 9630, 9710, 11800

N. AMERICA
English
00.30–00.50 11905, 15400
03.05–03.25 9575, 11905
French
00.50–01.10 11905, 15400
Italian
22.30–00.30 9630, 9710, 11810 11905, 15400
01.15–03.05 9575, 9630, 9710 11800, 11905

SPECIAL PRGR'S ITALIAN
Press Review, News
07.50–08.05 11905, 15325, 17740 17800, 21560
15.35–15.55 6010, 7290, 11810
Dictation News
08.05–08.55 11905, 15325, 17740 17800, 21560
14.05–14.45 15325, 17800, 21560
Sport (Sun. only)
14.55–16.05 15325, 17740, 17770 17800, 21560

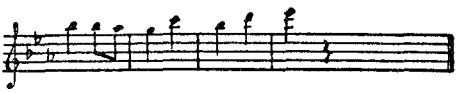
ANN.: I.: "Qui la Radio Italiana che vi parla da Roma, che trasmette sulla lunghezza d'onda di... programma per...", and in the languages of the countries to which the transmission is dedicated.
INT.-SIG.: Bird chirping. – **V.** by QSL-card.

★ LUXEMBOURG ★

L.T.: GMT+1 h. – **L.:** Luxembourgian, French, Flemish, English, German. – **Rcvrs.:** 89.742.

RADIO LUXEMBOURG (Comm.)
ADDR.: Compagnie Luxembourgeoise de Télédiffusion, Villa Louvigny, Luxembourg. **Cable:** "Radio Luxembourg". – **L.P.:** Dir. Gen.: M. Felten. Dir. Prgr.: J. Luc. Secr. Gen.: G. Graas.
STATIONS: R. Luxembourg I and II:
I 233 kc/s 1287 m 500 kW – 6090 kc/s 49.26 m 50 kW* d.
II 1439 – 208 – 350 – – 15350 – 19.54 – 5 – d.
FM: 88.9 mc/s 0.25 kW. * Relay of 1439 kc/s.
HOME SERVICE in Luxembourgian:
W. 17.00–18.00. Sun. also 13.00–14.00, 17.00–18.00 on 1439 kc/s.
Nat. Music: Thurs., Sat., Sun.: 17.00–17.30. – **N.:** W. 17.40. – **Mbg.:** Sun. 13.00–14.00, Mo. 17.00–17.20, Wed. 17.00–17.40.
FOREIGN SERVICE
On 233/15350 kc/s: 04.45–24.00 in **French, German.**
N., Comm. French: W.: 05.40, 06.30, 07.33, 11.25, 12.00, 12.13, 18.15, 22.00, 23.00. Sun.: 06.30, 07.00, 12.00, 18.15, 21.00, 23.00. **German:** D.: 04.45–05.20 (Sun. 05.45).

On 1439/6090 kc/s: Flemish: 06.00 (Sun. 05.30)–13.00. **German:** 13.00 (Sun. 14.00)–17.00. **English:** 17.00–24.00.
N. Flemish: 05.50 (W), 06.45, 12.00. **Mbg. Flemish:** D. 06.00. Mo., Wed. 10.00. Tues., Fri. Sat. 10.15. Thurs. 10.20. **N. German:** W. 13.00, 16.55. **Mbg. English:** W. 18.30.
ANN.: F.: "Ici R. Luxembourg". **E.:** Here R. Luxembourg". **Fl.:** "Hier is R. Luxembourg". **G.:** "Hier R. Luxembourg". **Luxembourgian:** "Hei ass R. Letzeburg".
INT.-SIG.: Melody played on piano: A Luxembourgian popular song



V. by letter. – **PUB.:** "Radio Magazine" (for French listeners) and "Notre Radio" (for Belgian listeners).

★ MADEIRA (Portuguese) ★

L.T.: GMT+1 h. (Su. GMT). – **L.:** Portuguese.

EMISSORA NACIONAL see Portugal (Go.)

RADIO CLUB DE MADEIRA (Pr.)
ADDR.: S. Martinho, Funchal.
HOME SCE.: CBS90 1484 kc/s 202 m 1 kW:
13.30–15.30, 20.00–02.00.
ANN.: "Ouvem a Estaçao o seu emissor de onda média, CSB90, no comprimento de onda de 202 m frequencia de 1484 kc/s". –
V. by QSL-card.

RADIODIFUSAO DE FUNCHAL (Pr.)
1594 kc/s 188.2 m 0.15 kW:
W: 13.30–17.00, 21.00–02.00. Sun.: 11.30–13.30, 15.00–02.00.

★ MALTA (British) ★

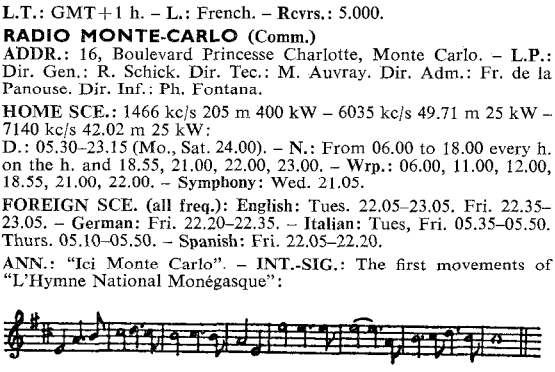
L.T.: GMT+1 h. – **L.:** English, Maltese. – **Rcvrs.:** 42.768.

REDIFFUSION (MALTA) LTD. (Pr. Comm.)
ADDR.: Rediffusion House, St. Luke's Rd., Guardamangia. – **Cable:** Rediffusion. – **L.P.:** Gen. Mgr.: E. A. Hamilton-Hill. Ass. Gen. Mgr.: G. A. Slater. Dir. Prgr.: G. Binns. Dir. Adm.: Major L. A. Páce Bonello. Dir. Tec.: P. A. Shears. – **D. PRGR.:** 06.00–23.00. **Prgr. I:** N. BBC Gen. Overseas Sce. – **Mbg.:** Sun. 08.00–09.30. – **Prgr. II:** Maltese: **N.:** 12.00, 17.30. – **Wrp.:** 15.30. – **Mbg.:** 08.00–09.00.

★ MONACO ★

L.T.: GMT+1 h. – **L.:** French. – **Rcvrs.:** 5.000.

RADIO MONTE-CARLO (Comm.)
ADDR.: 16, Boulevard Princesse Charlotte, Monte Carlo. – **L.P.:** Dir. Gen.: R. Schick. Dir. Tec.: M. Auvray. Dir. Adm.: Fr. de la Panouse. Dir. Inf.: Ph. Fontana.
HOME SCE.: 1466 kc/s 205 m 400 kW – 6035 kc/s 49.71 m 25 kW – 7140 kc/s 42.02 m 25 kW:
D.: 05.30–23.15 (Mo., Sat. 24.00). – **N.:** From 06.00 to 18.00 every h. on the h. and 18.55, 21.00, 22.00, 23.00. – **Wrp.:** 06.00, 11.00, 12.00, 18.55, 21.00, 22.00. – **Symphony:** Wed. 21.05.
FOREIGN SCE. (all freq.): English: Tues. 22.05–23.05. Fri. 22.35–23.05. – **German:** Fri. 22.20–22.35. – **Italian:** Tues, Fri. 05.35–05.50. Thurs. 05.10–05.50. – **Spanish:** Fri. 22.05–22.20.
ANN.: "Ici Monte Carlo". – **INT.-SIG.:** The first movements of "L'Hymne National Monégasque":



V. by QSL-card or letter. – **PUB.:** Weekly prgr. sched.

★ NORWAY ★

L.T.: GMT+1 h. – **L.:** Norwegian. – **Rcvrs.:** 988.765.

NORSK RIKSKRINGKASTING (Go.)
A non-comm. enterprise operated by an indep. organization.
ADDR.: Bj. Björnsonsplass 1, Oslo. **Cable:** Studio, Oslo.
L.P.: Dir.: K. Fostervoll. Dir. Prgr.: Th. Diesen. Dir. Adm.: K. Tvedt. Dir. Tec.: Chr. Vibe. Chief Secr.: B. Kragem. Studio Controller: A. Klæbo. Prgr. Editors: Toralv Øksnevad, Carl C. Lyche, H. Kiran, L. Rustad. Dir. Music: K. Lange. Dir. Plays: H. Heiberg. Editor "Programbladet": E. Strand. Dir. S.w. Prgr.: G. Nygaard.
HOME SCE.: W: 06.30–07.35, 18.00–22.00. Sun.: 07.50–09.55, 18.00–22.00.

L.-M. Waves:	kc/s	m	kW		kc/s	m	kW
Alta	1115	269	0.25	Narvik	1466	205	1
Arendal	1115	269	0.25	Nordkapp	1578	190	2
Bergen I	890	337	20	Notodden	1115	269	1
Bergen II	1115	269	1	Odda	1466	205	0.25
Bodö	674	445	10	Oslo	218	1376	200
Brönnöysund	1484	202	0.25	Porsgrunn	1466	205	1
Finmark	701	428	20	Rjukan	1484	202	0.25
Fredrikstad	1578	190	10	Röros	1115	269	0.25
Geilo	1466	205	0.25	Sandnessjöen	1466	205	0.25
Glomfjord	1484	202	0.25	Stavanger	1313	228	100
Kristianssand	890	337	20	Sulitjelma	511	587	0.25
Lista	1115	269	0.3	Svalbard	1466	205	1
Mo i Rana	1115	269	0.025	Tromsö	155	1935	10
Mosjöen	1484	202	0.025	Tröndelag	890	337	20
Namsos	1115	269	1	Vigra	629	477	100

FM: Bjerkreim 90.6 mc/s 60 kW – Bremanger 93.6 mc/s 15 kW – Gulen 90.9 mc/s 15 kW – Hesteneia 88.8 mc/s 11 kW – Hovdefjell 87.8 mc/s 15 kW – Lyngdal 97.6 mc/s 12 kW – Steinkjer 90.9 mc/s 12 kW – Stord 91.8 mc/s 60 kW – Tryvashögda* 93.8 mc/s 5.5 kW – Vega 89.1 mc/s 25 kW – Voss 90.3 mc/s 8 kW. – * Testtransmissions.
Rediffusion (1000 m) Opdal 0.25 kW – Åndalsnes 0.25 kW – Åseral 0.25 kW – Aröy 0.65 kW – Sulitjelma 0.25 kW – Langerak 0.6 kW – Tonstad 1.5 kW. – **N.:** 05.40 (W), 07.00 (W), 08.00 (Sun.), 12.00, 18.05, 21.10. – **Wrp.:** 05.40 (W), 07.00 (W), 08.00 (Sun.), 12.00, 18.00, 21.00.
Bergen I (337 m, Voss FM, Odda 205 m, Aröy 1000 m): Mo.–Fri. 15.10–15.30: Information.
Bergen II Local: D. 16.00–17.30 (Sun. 17.45).
North Norwegian Prgr.: Local: Tues., Wed., Thurs., Sat. 13.00–13.15. This prgr. is broadcast by the stations: Brönnöysund, Sandnessjöen, Mosjöen, Mo i Rana, Sulitjelma, Bodö, Narvik, Glomfjord, Tromsö, Alta, Nordkapp, Finmark.
Samisk from Tromsö, Alta, Nordkapp, Finmark: Tues. 13.10–13.40. Sat. 13.30–14.00.
ANN.: "Dette er Norsk Rikskringkasting". **In Samisk:** "Dat la Norga Rikaradio, Tromsast. Di gullabetet Samgial programa". – **INT.-SIG.:**

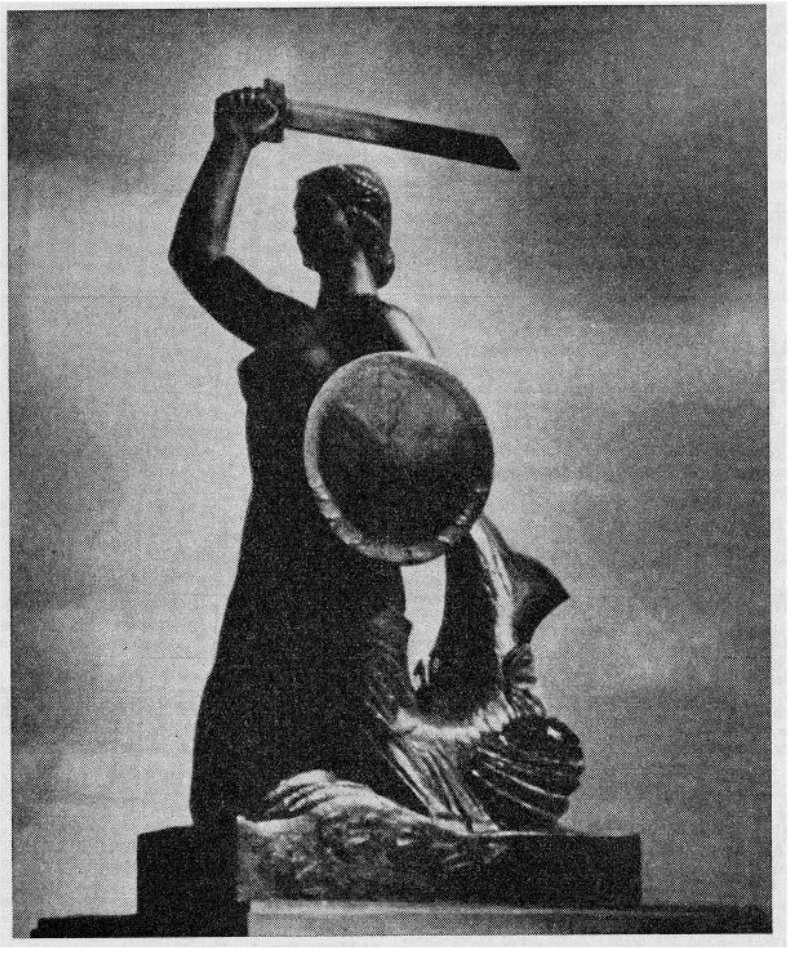
FOREIGN SERVICE:
Frequencies that may be used during the year. Transmitters: Fredrikstad 100 kW (1), 10 kW (2), 5 kW (one, 13 m only), Tromsö 10 kW (1).

Call	kc/s	m	Call	kc/s	m	Call	kc/s	m
LKF	1578	190.1	LLD	9550	31.41	LLM	15175	19.77
LKJ	6130	48.94	LLG	9610	31.22	LKW	17755	16.90
LLI	6185	48.50	LLH	9645	31.10	LLN	17825	16.83
LLS	7210	41.61	LKQ	11735	25.56	LLP	21670	13.85
LLR	7240	41.44	LLK	11850	25.32	LLQ	21730	13.81
			LKV	15170	19.78	LLA	25900	11.58

a: Home Sce. b: For Norwegians abroad. c: Weather at Sea (in Norwegian only). d: Norway this week.

			kc/s
W. 06.30–07.35 a Sun. 07.50–09.55 a	Eu., Af., Mid. So. Atl.	11735, 15175, 17825 21670, 25900
W. 10.25–10.35 c	No. M. Atl.	6130, 9610, 11735 21670, 25900
11.00–12.15 b Sun. 12.00–12.25 d	F.Ea., Jap., N.Z., E.Au.	11735, 15175, 17825 21670, 25900
13.00–14.15 b Sun. 14.00–14.25 d	Indian Ocean, We.Au., Eu.	6130, 15175, 17825 21670, 25900
16.00–17.15 b Sun. 17.00–17.25 d	Mediterranean, Af., Mid. Atl.	11735, 15175, 17825 21670, 25900
18.00–22.00 a	Eu., Af.	11735, 15175, 17825 21670
22.55–23.00 c 23.00–00.15 b Mo. 00.00–00.25 d	No. Mid. Atl. S. Am.	1578, 9610, 15175 17825, 21670
00.55 01.00 c 01.00–02.15 b Mo. 02.00–02.25 d	No. Mid. Atl. No. Am., No. Atl.	1578, 9610, 11735 15175
03.55–04.00 c 04.00–05.15 b Mo. 05.00–05.25 d	No. Mid. Atl. No. Am. (We. Coast) Pa., Ea. Af.	1578, 9610, 11735 15175, 21670

Prgr. for Norwegians abroad: Sun.: Religious Sce., Sport. **L.N.** – Mo.: Sport N., Parliament N. – Tues.: Answers to letters from listeners. L.N. – Wed.: Request Prgr. (music). L.N. – Thurs.: World N., L.N. – Fri.: Missionary N., L.N. – Sat.: Letter Box, L.N.
For Norwegian Seamen in the No. Atlantic and No. Sea:
Tromsö S.W. Tr. broadcasts daily the entire Home Sce. on 17755 kc/s.
ANN.: "This is Radio Norway with its shortwave service for Norwegians abroad".



POLSKIE RADIO

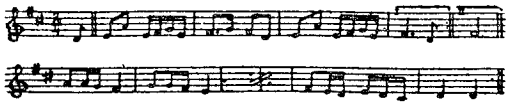
/POLISH RADIO/

broadcasts news, music, feature programmes
over 17 transmitters on long, medium and short waves

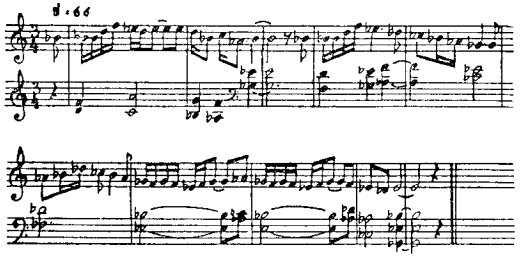
Warszawa 10 Po Box 46

/For full information see Poland/

INT.-SIG.: Every s.w. transmission is introduced by the following theme, which originates from an ancient folk tune from Hallingdal:



Five minutes previous to every s.w. tr. the following signal is sent:



Message to our English-speaking audience: In our daily prgrs. for Norwegians abroad we will usually have a section of Norwegian music or music presented by Norwegian artists. This musical section, which lasts 15 to 20 minutes, is introduced in **English** as well as in **Norwegian.** On Wed. and Sat. you can listen to our **"Letter Box Programme"**, in which we play our listeners' **request records.** We often receive letters from listeners in Norway with request to play a record with a greeting to one of their relatives abroad, but we regret to be unable to comply with these requests. Every Sunday we have an additional prgr. in English, **"Norway this week"**, in which we try to present Norway in different ways through music and feature prgrs. We are very grateful for comments on our transmissions. Reports are answered by QSL-card. Return postage is not necessary. Our postal address is: **RADIO NORWAY**, Oslo, Norway.
PUB.: Programbladet (weekly).
NOREA RADIO (Nordic Radio Evangelistic Association)
ADDR.: Grensen 19, Oslo. – **L.P.:** Dir. Adm. & Prgr.: M. Leine.
D. Prgr.: 20.30–21.00 on 9335 kc/s 32.15 m 10 kW. **The Voice of Tangier.** – **V.** by QSL-card.

★ POLAND ★

L.T.: GMT+1 h. (Su.+2). – **L.:** Polish. – **Revrs.:** 4.400.000.
POLSKIE RADIO (Go.).
ADDR.: Komitet do Spraw Radiofonii "Polskie Radio" ul. Noakowskiego 20, Warsaw. – **Cable:** "Polskieradio". – **L.P.:** Pres.: W. Sokorski. Vice Pres., Home Sce.: H. Werner. Vice Pres., Foreign Sce.: E. Uzdanski. Vice Pres., Chief Eng.: K. Kozlowski. Dir. T.V.: J. Panski. Dir. Foreign. Relations: Mme K. Zebrowska.
HOME SERVICE:

Warszawa I	227	1322	500	Opole	1484	202	1
Poznan	1205	249	300	Koszalin	1484	202	1
Warszawa II	818	367	150	Olsztyn	1484	202	1
Katowice	1079	278	60	Kielce	1484	202	1
Wroclaw	1259	238	50	Jelenia Góra	1484	202	1
Zielona Góra	1320	237	30	Zakopane	1484	202	1
Szczecin	1304	230	50	Kraków	1502	197.6	60
Gdansk	1304	230	30	Rzeszów	1502	197.6	30
Torun	1367	219	26	Bialystok	1594	188.2	30
Lódz	1484	202	8	Lublin	1594	188.2	1

FM: Warszawa III 97.6 mc/s 10kW. Katowice 89.8 mc/s 3kW. Opole 95.0 mc/s 3kW.
Prgr. 1: 227kc: W. 0.3.57–22.10 (Sat. 22.40). Sun. 04.30–22.40.
Prgr. 2: 818 kc/s: W. 04.27–11.15, 14.00–23.00 (Sat. 24.00). Sun. 05.00–24.00.
Prgr. 3: 97.6 mc/s: D. 03.57–20.00 (rel. Prgr. 1), 20.00–22.00, exc. 1, 3, 5th Thurs. in the month.: 03.57–18.30 (rel. Prgr. 1), 18.30–22.00.
Nat. Music: Chopin Concerts: Prgr. 1: Wed. 19.00, Prgr. 2: Sun. 15.30, Sat. 10.00. **N., Commentary:** Prgr. 1: W. 04,00, 05.00, 06.00, 12.55, 15.00, 18.00, 20.00, 22.00. Sun.: 05.00, 06.00, 07.00, 18.00, 22.00. – Prgr. 2: W.: 04.30, 05.30, 11.04, 17.30, 21.00. Sun.: 05.30, 06.30, 19.00, 21.00. – **Wrp.:** Prgr. 1: W. 04.00, 05.00, 06.00, 18.00. Sun.: 05.00, 06.00, 07.00. – Prgr. 2: W. 04.30, 05.30, 06.30. Sun.: 05.30, 06.30, 19.00.

FOREIGN SERVICE:

kc/s	m	kc/s	m	kc/s	m	kc/s	m
227	1322	6075	49.38	7295	41.12	11905	25.20
737	407	6105	49.14	9525	31.50	11975	25.05
5955	50.38	6195	48.43	9685	30.98	15275	19.64
5975	50.21	7125	42.11	11740	25.55	17800	16.85

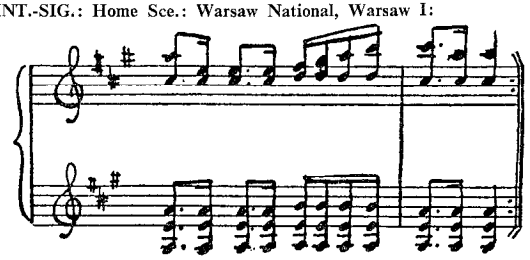
EUROPEAN SERVICE:

Danish:	m.b.
16.30–17.00	31, 41, 50
18.30–19.00	41, 50
20.30–21.00	41, 50
English:	
18.30–19.00	31
19.30–20.00	41, 50
20.30–21.00	31, 42
21.30–22.00	48, 50
Finnish:	
16.00–16.30	31, 41, 50
18.00–18.30	31, 41, 50
19.30–20.00	48
French:	
11.00–11.15	16, 19, 25
16.30–17.00	31, 25
17.30–17.55	25, 31
20.00–20.30	31, 42
21.30–22.00	31, 42
German:	
17.00–17.30	31, 42
18.30–19.00	31, 42
19.30–20.00	31, 42
21.00–21.30	31. 42
22.45–23.15	1322 exc. Sat., Sun.
23.15–23.45	1322 Sat. Sun.
Italian:	
16.00–16.30	25, 31
18.00–18.30	31, 25
20.00–20.25	25, 31
21.00–21.30	31, 49
22.00–22.30	31, 49

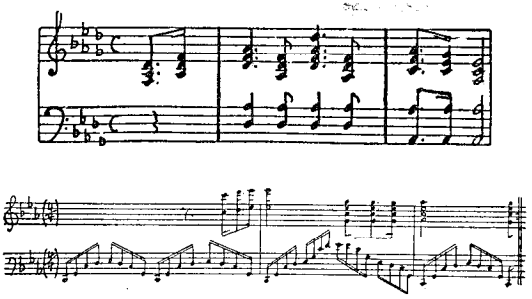
Polish:	
12.00–12.30	16, 19
16.00–16.30	31, 42
16.30–17.00	31, 42
17.30–18.30	31, 42
19.00–19.30	31, 42
21.00–21.30	48
Spanish:	
19.00–19.30	41, 50
20.30–20.55	31, 25
Swedish:	
17.30–18.00	31, 41, 50
19.00–19.30	48
22.15–22.45	1322 exc. Sat., Sun.
22.45–23.15	1322 Sat., Sun.
Concerts for Europe:	
18.30–19.30	25, 31
20.00–21.00	48
NO. AMERICAN SCE.:	
Polish:	
12.00–12.30	16, 19, 25
01.30–02.00	19, 25, 31
02.00–02.30	19, 25, 31
03.30–05.00	19, 25, 31
English:	
12.30–13.30	16, 19, 25
00.30–01.30	16, 19, 25
02.30–03.30	16, 19, 25
SO. AMERICAN SCE.:	
Polish:	
22.15–22.45	16, 19
22.45–23.45	16, 19, 25

ANN.: Home Sce.: "This is Polskie Radio Warsaw" (or another station when local programme) – "Tu Polskie Radio Warszawa". – **Foreign Sce.: English:** "This is Warsaw calling". – **Polish:** "Mówi Warszawa". **French:** "Ici Varsovie etc."

INT.-SIG.: Home Sce.: Warsaw National, Warsaw I:



Warsaw II: First movement of Polonaise in A flat major by Chopin



Foreign Sce.: Revolutionary Etude by Chopin. – **V.** by QSL-card.

★ PORTUGAL ★

L.T.: GMT (Su. GMT+1 h., from 1st Sun. in April to 1st Sun. in October). – **L.:** Portuguese. – **Revrs.:** 623.478.

EMISSORA NACIONAL DE RADIODIFUSAO (Go.)
ADDR.: Rua do Quelhas 2, Lisboa. – **Cable:** "Emissora-Lisboa". – Emissor Regional do Norte: Rua Candido dos Reis, Porto. – Emissor Regional de Coimbra, Faro, Guarda. – Emissor Regional dos Açores: Ponta Delgada, Açores.

L.P.: Dir. Gen.: A. d'Eça de Queiroz. Dir. Tec.: Eng. M. Bivar. Dir. Adm.: Dr. C. Rogeiro. Dir. Prgr.: Eng. J. da Silva Dias. Foreign Sce.: T. Alcaide.

HOME SERVICE

Medium Waves:

Name	kc/s	m	kW	h. of tr.	
Lisboa I	665	451.1	135	07.30–10.00 (a), 18.00–24.00	12.00–15.00
Lisboa II	755	397.3	135	19.00–24.00 (b)	
Porto I	719	417.2	10	08.00–10.00 (c),	12.00–15.00
Porto II	1367	219.5	1	18.00–24.00	
Coimbra	1061	282.8	1	08.30–10.00 (d),	12.00–15.00
Faro	1061	282.8	1	18.00–24.00	
Guarda	557	539.0	1	13.00–14.00 (d, e), 18.00–24.00	
Covilhã	1562	192.1	1		
Viseu	1358	220.9	1		
Portalegre	1484	202.2	0.1	18.00–24.00 (d)	
Elvas	1358	220.9	0.1		
Short Waves:					
Atlântico (Lisboa)	15150	19.80	10	12.00–15.00 (f)	
	6373	47.09	10	18.00–24.00	
Açores Regional (Ponta Delgada)	4865	61.66	1	14.00–15.00, 20.00–24.00	

FM:

Lisboa – 94.30 mc/s 12 kW (ERP) 07.30–10.00 (a), 12.00–15.00, 18.00–24.00

Porto – 92.50 mc/s 20 kW (ERP) 20.00–24.00 (g)

(a) Sun. 07.30–24.00. (b) Sun. 13.30–24.00. (c) Sun. 08.30–24.00. (d) Sun. 11.00–24.00. (e) Sat. 13.00–15.00. (f) Sun. 11.00–17.45. (g) Sun. 14.45–17.00, 20.00–24.00.

N.: Lisboa I: 07.35, 08.30, 13.00, 18.00, 21.00, 23.45. Lisboa II: 19.50. Porto II, Coimbra, Guarda: 20.30. – **Request prgr.:** Lisboa: Tues., Sat. 20.30. Fri. 21.30. Porto: Wed. 19.00. Sat. 12.30. Coimbra: Mo. 20.30. Thurs., Sat. 19.30. – **Wrp.:** 09.00, 09.55, 13.00, 14.55, 21.00, 23.45.

ANN.: "Emissora Nacional a transmitir com... (regional tr.)" – **V.** by QSL-card or letter. – **PUB.:** "Aqui Lisboa", which contains the s.w. sched. Free upon request.

OVERSEAS SERVICE

Short Waves: All stations Lisboa exc. those marked with * (Ponta Delgada). All stations directional exc. 123, 75 and 61 m.b. All stations 100 kW exc. 2422 kc/s (1), 75 m.b. (10), 61 m.b. (1). Call: CSA––.

Call	kc/s	m	Call	kc/s	m	Call	kc/s	m
98	2422*	123.9	25	9680	30.99	39	15100	19.87
73	3980	75.38	26	9727	30.84	35	15110	19.85
74	3990	75.19	27	9740	30.80	36	15120	19.84
93	4845*	61.92	28	9746	30.78	64	15125	19.83
97	4865*	61.66	57	9765	30.72	33	15150	19.80
94	4880*	61.48	76	9775	30.69	34	15160	19.79
206	5960	50.34	40	11720	25.60	37	15320	19.59
78	5976	50.20	208	11755	25.52	65	15355	19.54
207	6020	49.83	31	11840	25.34	42	15380	19.50
52	6025	49.79	58	11875	25.26	43	17740	16.92
29	6185	48.50	59	11895	25.22	79	17815	16.84
38	6360	47.17	30	11915	25.18	209	17835	16.82
21	6374	47.09	92	11915*	25.18	44	17870	16.79
91	7018*	42.75	77	11920	25.17	45	17880	16.78
60	7049	42.56	71	11925	25.16	46	17890	16.77
55	7130	42.07	95	11925*	25.16	66	17895	16.76
53	7225	41.52	72	11930	25.15	67	21495	13.96
22	7260	41.32	96	11930*	25.15	47	21660	13.85
54	7265	41.30	62	11935	25.14	48	21690	13.83
23	9635	31.14	41	11958	25.09	49	21700	13.83
56	9645	31.10	63	11964	25.07	50	25650	11.70
20	9650	31.09	32	11995	25.01	68	25665	11.69
24	9670	31.02	75	15050	19.93	51	25700	11.67

Remark: Powers indicated are the powers at carrier level.

I = Timor; II = Macau; III = India/Pakistan/Persian Gulf; IV = Goa (Portuguese India); V = Kenya/Tanganyika/Uganda/So.Af.; VI = S. Tomé/Angola/Mozambique; VII = New Foundland/Greenland (Portuguese Fishing Fleet); VIII = Guinea/Cape Verde; IX = Brazil; X = No.Am. (Atl. Coast); XI = U.S.A. (Pa. Coast).

H. of tr.	Area	L.	All the year round m.b.	H. of tr.	Area	L.	All the year round m.b.
00.00–04.00	X	P	19–25	10.00–13.15*	VI	P	13
02.00–04.00	XI	P	25–31	17.15–21.30	VI	P	13–16–19
10.00–13.00	I	P	13–16	10.00–13.00	VIII	P	13
10.00–13.15	II	P	13–16	20.00–24.00	VIII	P	16–19
13.15–13.45	III	Konkani	13–16	14.30–17.15	IX	P	13
13.45–14.30	III	E	13–16	21.30–02.00	IX	P	16–19
14.30–17.15	IV	P	13–16	21.30–00.45	VII	P	19
17.15–18.00	V	E	13–16	* Sun. 10.00–17.15.			

N.: Portuguese: 00.15, 02.30, 11.00, 15.30, 18.00, 19.30, 22.15. **English:** 14.07, 17.37. **Konkani:** 13.29. – **Request prgr.:** "Que quer ouvir?" Sun. 02.00, Thurs. 12.05, 15.45, 20.30.

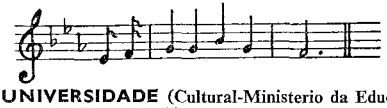
ANN.: E.: "This is Lisbon Calling". **Konkani:** "Lisboa apoita".
INT.-SIG.: Time signal and National Anthem. – **V.** by QSL-card. – **PUB.:** "Aqui Lisboa", quarterly. "Radio e Televisao", weekly.

RADIO RENASCENÇA (Religious Catholic).
ADDR.: Emissora Catolica Portuguesa, Rua Capelo 5, 2° esq°., Lisboa
HOME SERVICE: 08.30–10.30, 12.00–15.00, 18.30–24.00.
Lisboa CSB 3 1286 kc/s 233 m 2 kW – CSB 52 6154 kc/s 48.74 m 3 kW.
Porto CSB 30 1169 kc/s 256.6 m 1 kW.
N.: 13.45, 20.30, 22.45.
ANN.: P.: "Radio Renascenca-Emissora Catolica Portuguesa". – **INT.-SIG.:** Gong. Prgr.s open with a religious choir. – **V.** by QSL-card.

RADIO CLUBE PORTUGUES (Comm.-Priv.)
(Sociedade Anónima Cooperativa de Responsabilidade Limitada).
ADDR.: Central Office: Rádio Clube Português, Serviços Centrais, Rua Sampaio e Pina 26, Lisboa. **Cable:** Radioclube. – **Northern Branch:** Delegação do Norte, Rua de Ceuta 53, Porto. **Cable:** Radioclube. – **L.P.:** Pres.: Maj. J. B. Moniz, Gen. Mgr.: A. L. Basto, Prgr. Dir.: A. Jorge. Tec. Dir.: E. M. Menezes. Comm. Dir.: Cor. R. Pereira da Cunha. – **Northern Branch:** Dir. Eng. H. Schreck, Dir. Tec.: (Miramar): Eng. P. Niny dos Santos.

HOME SCE.:	kc/s	m	kW	
Miramar CSB9	782	383.6	100	11.15–15.00, 18.15–00.30
Parede CSB2	1034	290.1	25	07.00–01.00
Parede CSB51	6080	49.34	10	07.00–01.00

FM: Lisboa CSB55 90.2 mc/s 3 kW: 08.30–01.00. Porto (under construc.)
ANN.: "Rádio Clube Português a transmitir com as suas estações de onda média, onda curta e modulação de frequencia". – **INT.-SIG.:** Gong. – **V.** by QSL-card.



RADIO UNIVERSIDADE (Cultural-Ministerio da Educação).
ADDR.: Praça das Flores 51, Lisboa.
HOME SERVICE in Portuguese: 755 kc/s 397 m 20 kW: 18.00–18.55.
ANN.: "Radio Universidade, estudios do Centro Universitário da Lisboa, da Mocidade Portuguese, a transmitir por intermedio de Estação Lisboa 2 da Emissora Nacional". – **INT.-SIG.:** Opens and closes with "March a da Mocidade Portuguesa."

EMISSORA LICEU DE PEDRO NUNES (Go., Ministry of Education).
ADDR.: Av. Alvares Cabral, Lisboa.
HOME SERVICE: Wed., Fri. 17.00–18.30. Sun. 10.00–12.00.
CSB56 6003 kc/s 49.97 m 0.15 kW.
ANN.: In P.: "Aqui Lisboa, Portugal, fala-vos a Estação Emissora do Liceu de Pedro Nunes, a trabalhar com o seu emissor CSB56, no comprimento de onda de 49.9 metros, frequencia de 6003 quilociclos por segundo". – **V.** by QSL-card. –

EMISSORES ASSOCIADOS DE LISBOA (Comm.)
R. Peninsular – R. Graca – R. Voz de Lisboa – Clube Radiofonico – R. Restauração.
CSB4 1594 kc/s 188 m 1 kW: 08.00–01.00 (Sun. 07.00–01.00).

EMISSORES DO NORTE REUNIDOS, Porto (Comm.)
ADDR.: R. D. João IV, 960, Porto. – **L.P.:** Dir. Gen. A. Rodrigues. Dir. Prgr.: Dr. M. Taborda. Dir. Tec.: F. Grilo.
CSB5 1578 kc/s 190.7 m 10 kW: 08.00–01.00.

RADIO RIBATEJO (Comm.) 1322 kc/s 226.9 m 0.15 kW: **W.:** 10.00–14.00, 18.00–20.00. Sun. 10.00–20.00.

R. ALTO-DOURO (Comm.) 800 kc/s 375 m 0.25 kW: 12.00–14.00

★ RUMANIA ★

L.T.: GMT+2 h. – **L.:** Rumanian. – **Revrs.:** 1.500.000.

RADIODIFUZIUNEA SI TELEVIZIUNEA ROMINA (Go.)
ADDR.: P.O.B. 111, Bucuresti, Republica Populara Romina.
Cable: Radiodifuziunea.

HOME SERVICE:

D. PRGR.: kc/s	m	kW	Weekdays 1. Prgr.	2nd Prgr.	Sundays 1st Prgr.	2nd Prgr.
155	1935	150	03.00–22.00		04.00–22.00	
854	351	150	03.00–12.00	12.00–22.00[1]		05.00–22.00
1484	202	5	12.00 22.00		04.00–22.00	
1052	285	20	03.00–06.30	12.00–16.00		
				17.00–22.00[2]		05.00–22.00
1151	261	30	03.00–03.30	12.00–13.00[3]		06.30–07.30
909	330	1	05.15–06.30	17.00–22.00[4]		08.30–14.00
						14.45–22.00
1457	206	20	03.00–06.30	12.00–16.00		05.00–22.00[10]
				17.00–22.00[5]		
755	397	50	03.00–04.00	12.00–13.00		05.00–05.40
			04.45–12.00[9]	15.00–17.00[6]		06.15–07.30
						08.05–13.30
						14.45–17.00
557	540	1		12.00–15.30[7]		12.00–14.00
				17.00–22.00[8]		14.30–22.00

SOCIEDAD ESPAÑOLA DE RADIODIFUSION (S. E. R.)

Oficinas Centrales: Avenida de José Antonio, 32. Madrid. España.

Emisoras que integran la Cadena radiofónica comercial SER.

EAJ 1 Radio Barcelona.
Caspe, 12.

EAJ 3 Radio Valencia.
Don Juan de Austria, 5

EAJ 4 Radio Galicia.
Plaza Universidad, núm. 5.
(Santiago).

EAJ 5 Radio Sevilla.
Rafael Gonzáles Abreu, 4.

EAJ 7 RADIO MADRID
Av. de José Antonio, 32
(Emisora Central).

EAJ 8 Radio San Sebastián.
Avenida de España, 27.

EAJ 11 Radio Reus.
Arrabal de Santa Ana, 50.

EAJ 13 Radio Mallorca.
Paz, 35

EAJ 14 Radio Castellón.
Moyano, 1.

EAJ 16 Radio Granada.
Gran Via, 27.

EAJ 17 Radio Murcia.
Plaza de Cetina, 2.

EAJ 18 Radio Rioja.
Avenida de Portugal, 12.
(Logroño).

EAJ 22 Radio Huesca.
San Salvador, 19.

EAJ 23 Radio Gandía.
San Pascual, 15.

EAJ 27 Radio Castilia.
Espolón, 40.
(Burgos).

EAJ 28 Radio Bilbao.
Rodríguez Arias, 8.

EAJ 31 Radio Alicante.
García Morato, 55.

EAJ 32 Radio Santander.
Palacio del Real Club
de Regatas.

EAJ 34 Radio Gijon.
Moros, 45.

EAJ 40 Radio Pontevedra.
Peregrina, 33.

EAJ 41 Radio Coruña.
Fontán, 3.

EAJ 44 Radio Albacete.
Pasaje de Lodares, 4.

EAJ 47 Radio Valladolid.
Avenida Calvo Sotelo, 2

EAJ 48 Radio Vigo.
Principe, 53.

EAJ 50 Radio Las Palmas.
Tríana, 134-bis.

EAJ 52 Radio Extremadura.
Teniente Coronel Yagüe, 2.
Badajoz.

EAJ 54 Radio Alcira.
Plaza del Caudilo, 51.

EAJ 56 Radio Salamanca.
Rosa, 2.

EAJ 58 Radio Jerez.
Angustias, 11.

EAJ 61 Radio Jaén.
Bernabé Soriano, 18.

EAJ 62 Radio Vitoria.
Postas, 19.

EAJ 63 Radio León.
Villafranca, 8.

EAJ 64 Radio Segovia.
San Augustin. 5.

EAJ 65 Radio Ciudad Real.
Avenida de los Mártires, 10.

EAJ 72 Radio Zamora.
San Torcuato, 20.

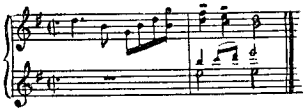
Radio Mediterráneo (O. C.)
Avenida del Marqués
de Sotelo, 2.
Valencia.

Radio Internacional.
Goya, 34 (Tánger).

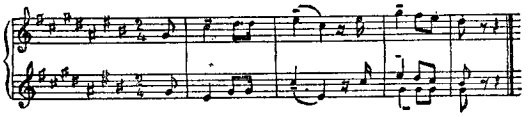
EAJ 101 Radio Zaragoza.
Avenida Marina
Moreno, 21.

[1], [2], [4], [5], [8]: Sat. 22.50. [3]: Wed. 12.00-12.30. [6]: Mo. from 15.30. [7]: Mo. 16.00. [9]: Mon. from 04.15.[10]. : Sun. Reg. Prgr.: 08.00–08.30.
Besides we broadcast daily 1–3 hours Reg. prgr.: Cluj in **Rumanian, Hungarian**; Timisoara in **Rumanian, German, Serbian**; Mures in **Rumanian, Hungarian**; Craiova – Iasi in **Rumanian.**
N., Commentaries: 1' Prgr.: D. 03.00, 04.00, 05.00, 09.00, 11.00, 13.00, 15.00, 17.00, 18.00, 20.00, 21.52. **Press items:** 06.00. Sun.: 04.30, 11.00, 17.00, 20.00, 21.52. **Press Revue:** 09.45. – **2' Prgr.:** D.: 12.00, 14.00, 16.00, 19.00, 21.00. Sun.: 05.50, 12.00, 18.00, 21.00.
ANN.: Home Sce.: 1st Prgr.: Opening: "Aici Bucuresti, dragi ascultatori,buna dimineata. Transmitem Programul nostru pe statiile de radio cu lungimile de unda de...". 2nd Prgr.: "Aici Bucuresti, transmitem Programul II pe statiile de radio cu lungimile de unda de...". Close down: 1st, 2nd Prgr.: "Aici Bucuresti, Dam ora exacta. Emisiunea noastra s-a terminat. Ascultati-ne din nou miine dimineata la orele... pe lungimile de unda de... Dragi ascultatori, noapte buna". – **PUB.:** Weekly: "Programul de Radio si Televiziune".

INT.-SIG.: I Prgr.:



II Prgr.:



FOREIGN SERVICE:

155 kc/s	1935.0 m	92 54kc/s	32.43 m	15250 kc/s	19.67 m
755 –	397.0 –	9570 –	31.35 –		
6210 –	48.31 –	11937 –	25.13 –		

FOR EUROPE:

English: m.b.
19.30–20.00 25, 31, 32, 48
21.00–21.30 25, 31
22.30–23.00 25, 31, 1935

French:
18.00–18.30 25, 31
20.30–21.00 25, 31
22.00–22.30 25, 31

German:
18.00–18.30 32, 48, 397
19.00–19.30 25, 31
21.00–21.30 397
22.00–22.30 32, 48, 1935

Greek:
17.00–17.30 25, 31, 32, 48
19.30–20.00 397
21.00–21.30 32, 48
21.30–22.00 397

Italian:
17.30–18.00 25, 31, 32, 48
18.30–19.00 32, 48, 397
20.00–20.30 25, 31, 397
20.30–21.00 397
22.00–22.30 397

Rumanian[4]):
21.30–22.00 32, 48
22.30–23.00 32, 48, 397

Serbian:
17.30–18.00 397
19.00–19.30 397

Spanish:
20.30–21.00 32, 48
21.30–22.00 25, 31

Concerts:
16.00–16.30[1] 25, 31
21.30–22.00 32, 48
22.30–23.00[2] 32, 48, 397
22.30–23.00[3] 32, 48, 397

FOR NEAR EAST:

English: m.b.
19.00–19.30 32, 48

French:
16.30–17.00 25, 31

FOR NEAR, MI. EAST:

Turkish:
17.00–17.30 397
20.00–20.30 32, 48

Persian:
15.30–16.00 25, 31
18.30–19.00 25, 31

FOR SO. AM.:

Spanish:
00.00–00.30 19
03.00–03.30 25, 31
04.00–04.30 25, 19

FOR USA: m.b.

English:
01.30–02.00 31
02.30–03.00 31
04.30–05.00 25, 31

Rumanian:
23.15–23.56[5] 19
03.30–03.57[5] 25, 31

Yiddish:
02.00–02.30 31

[1]) Ann. French, English.
[2]) Ann. German (Wed., Sat.)
[3]) Ann. Italian (Tues.)
[4]) Sun., Mo., Thurs., Fri.
[5]) D. incl. concert; ann. in Rumanian.
[6]) Ann. Rumanian (Tues., Wed., Sat.)

ANN.: Rumanian: "Aici Bucuresti. Aici Bucuresti in banda de... metri, respectiv... kilocicli. Incepem emisiunea...". – **English:** For Europe: "This is Bucharest calling in the... meter bands, that is... kilocycles, with today's first (second) broadcast in English." – For USA: "This is Bucharest calling North America in the... meter band, that is... kilocycles, with today's first (second) broadcast in English." – For Orient: "This is Bucharest calling the Near and Middle East in the... meter band, that is... kilocycles." – **French:** "Ici Bucarest. Ici Bucarest dans les bandes de... mètres. Bonsoir, chères auditrices, bonsoir, chers auditeurs." – **German:** "Hier ist der Rumänische Rund- und Fernsehfunk mit der Sendung in deutscher Sprache. Sie hören uns auf Kurzwelle... gleich... kHz... und auf Mittelwelle...". – **Italian:** "Parla Bucarest. E' Bucarest che vi parla nella sua prima (secunda) trasmissione della giornata, su onde corte di metri... Amici ascoltatori, buona sera." – **Spanish:** "Habla Bucarest. Muy buenos noches, estimados oyentes. La Radiodifusión y Televisión rumana comienza su primera (segunda) emisión en lengua española por campos de onda de... metros... kilociclos respectivamente."
INT.-SIG.:

V. by QSL-card or letter. – **PUB.:** Weekly "Programul de Radio". Free upon request.

★ SPAIN ★

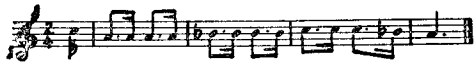
L.T.: GMT+1 h. – **L.:** Spanish. – **Revrs.:** 2.000.000.

RADIO NACIONAL DE ESPANA (Go.)
ADDR.: Paseo de la Castellana, no. 42, Madrid.
L.P.: Dir. Gen.: D. J. M. Revuelta Prieto. Dir. Prgr.: .D D. Porres Gil. Dir. Adm.: D. E. Frax. Dir. Tec. Section: D. J. Sanchez-Cordoves. Dir. Foreign Sce. & Pub. Rel.: D. J. de Aguilera Gamoneda.
HOME SCE.:

	kc/s	m	kW		kc/s	m	kW
Madrid	584	513.7	120	Huelva	850	352.9	5
Madrid-Local	1022	293.0	100	Malaga	1007	298.0	6
Sevilla	638	470.5	5	Cuenca	1178	254.7	5
La Coruña	692	434.0	2.5	Madrid	6000	50.00	50
Barcelona	737	407.1	25	Malaga	6175	48.58	2
Valencia	773	388.1	5				

FM: 93 mc/s 3 kW (Madrid) – 98 mc/s 1 kW (Barcelona).
Madrid:
1st Prgr.: 07.00–12.00 1022 kc, 07.30–12.00 6000 kc. **Nat. Prgr.:** 12.00–00.30 584 kc, 12.00–21.15 1022 kc, 12.00–16.55 6000 kc.
N. (relayed by all st.): 13.30, 18.30, 21.00, 23.30. **English:** on 584 kc.: 18.30–19.45.
3rd Prgr.: 21.30–23.30 on 1022/6000 kc.
Sevilla: 07.45–24.00. **La Coruña:** 12.00–15.00, 18.30–24.00. **Barcelona:** 08.00–24.00. **Valencia:** 07.00–24.00. **Huelva:** 12.00–15.00, 17.00–23.00. **Malaga:** 12.00–24.00. **Cuenca:** 11.00–24.00.
INT.-SIG.: Sintonia para el Servicio:

Señal de pause:



ANN.: "Transmite Radio Nacional de España desde sus estudios en Madrid."

FOREIGN SERVICE

Madrid-Arganda: 100 kW exc.* 50 kW

6130 kc/s	48.94 m	9585 kc/s	31.30 m	9695 kc/s	30.94 m
7100 –	42.25 –	9605 –	31.23 –	11815 –	25.39 –
9360* –	32.05 –	9677 –	31.00 –	15420 –	19.45 –
9370 –	32.02 –				

EUROPEAN SERVICE:
16.30–20.10 on 7100/9360 kc/s:
Bulgarian 18.15–18.30 – **Croatian** 17.15–17.30 – **Czech** 16.45–17.00 – **Estonian** 18.00–18.15 – **Hungarian** 19.00–19.20 – **Latvian** 17.00–17.15 – **Lithuanian** 18.30–18.45 – **Polish** 19.40–20.10 – **Rumanian** 19.20–19.40 – **Russian** 17.30–18.00 – **Slovak** 18.45–19.00 – **Ukrainian** 16.30–16.45 –
20.20–22.00 on 6130/7100/9360 kc/s:
English 20.20–20.50 – **French** 20.50–21.20 – **German** 21.20–21.40 – **Italian** 21.40–22.00.
"Buenas Noches Europa, Aqui es Madrid": Sat. 23.30–01.00 on 6000 kc. **News & Music in Spanish** (23.30), **French** (23.45), **English** (00.00), **Italian** (00.15), **German** (00.30).

RADIO NACIONAL DE ESPAÑA

HABLA PARA EL MUNDO

HORAS IN GMT

En chino:	De 11.45 a 12.15, por 25 y 19 metros.
En árabe:	De 15.30 a 19.58 por 32 metros.
En ucraniano:	De 16.30 a 16.45 horas, por 42 y 32 metros.
En checo:	De 16.45 a 17.00 horas, por 42 y 32 metros.
En croata:	De 17.15 a 17.30 horas, por 42 y 32 metros.
En letón:	De 17.00 a 17.15 horas, por 42 y 32 metros.
En ruso:	De 17.30 a 18.00 horas, por 42 y 32 metros.
En estoniano:	De 18.00 a 18.15 horas, por 42 y 32 metros.
En búlgaro:	De 18.15 a 18.30 horas, por 42 y 32 metros.
En lituano:	De 18.30 a 18.45 horas, por 42 y 32 metros.
En eslovaco:	De 18.45 a 19.00 horas, por 42 y 32 metros.
En rumano:	De 19.20 a 19.40 horas, por 42 y 32 metros.
En húngaro:	De 19.00 a 19.20 horas, por 42 y 32 metros.
En polaco:	De 19.40 a 20.10 horas, por 42 y 32 metros.
En inglés:	(Para Inglaterra): De 20.20 a 20.50 horas, por 42,49 y 32 metros. (Para estado Unidos. Costa Atlántica): De 03.10 a 03.50 horas, por 32 y 49 metros. (Para Estados Unidos. Costa Pacífico): De 04.00 a 04.50 horas, por 32 y 49 metros. (Para Estados Unidos. General para los Estados): De 05.00 a 05.50 horas, por 32 y 49 metros.
En francés:	De 20.50 a 21.20 horas, por 42, 49 y 32 metros.
En alemán:	De 21.20 a 21.40 horas, por 42, 49 y 32 metros.
En italiano:	De 21.40 a 22.00 horas, por 42, 49 y 32 metros.
En portugués:	(Para Brasil): De 22.15 a 22.45, por 32 y 25 metros.
En español:	(Para Hispanoamérica): De 23.57 a 02.57 horas, por 32 y 25 metros. (Para españoles residentes en América): De 22.45 a 24.00 horas, por 32 y 25 metros. (Para Filipinas): De 11.00 a 11.45 horas, por 31 y 19 metros. (Para los españoles residentes en el extranjero): De 11.30 a 12.00 horas, por 50 y 293 metros. (Para Guinea y Africa Occidental): De 15.45 a 16.20 horas, por 31 metros. (Para los Misioneros en Oriente): De 12.15 a 12.30 horas, por 25 y 19 metros.

Treienta y cuatro servicios informativos, en veinte idiomas, llevan asi a todos los paises LA VOZ DE ESPAÑA.

RADIO NACIONAL DE ESPAÑA

SPEAKS TO THE WORLD

TIMES IN GMT

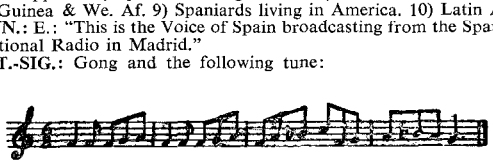
In Chinese:	From 11.45 to 12.15 on 25 and 19 m.
In Arabic:	From 15.30 to 19.58 on 32 m.
In Ukrainian:	From 16.30 to 16.45 on 42 and 32 m.
In Czech:	From 16.45 to 17.00 on 42 and 32 m.
In Croatian:	From 17.15 to 17.30 on 42 and 32 m.
In Latvian:	From 17.00 to 17.15 on 42 and 32 m.
In Russian:	From 17.30 to 18.00 on 42 and 32 m.
In Estonian:	From 18.00 to 18.15 on 42 and 32 m.
In Bulgarian:	From 18.15 to 18.30 on 42 and 32 m.
In Lithuanian:	From 18.30 to 18.45 on 42 and 32 m.
In Slovak:	From 18.45 to 19.00 on 42 and 32 m.
In Rumanian:	From 19.20 to 19.40 on 42 and 32 m.
In Hungarian:	From 19.00 to 19.20 on 42 and 32 m.
In Polish:	From 19.40 to 20.10 on 42 and 32 m.
In English:	(to Gt. Britain): From 20.20 to 20.50 on 42, 49 and 32 m. (to USA, Atlantic Coast): From 03.10 to 03.50 on 32 and 49 m. (to USA, Pacific Coast): From 04.00 to 04.50 on 32 and 49 m. (To USA all States): From 05.00 to 05.50 on 32 and 49 m.
In French:	From 20.50 to 21.20 on 42, 49 and 32 m.
In German:	From 21.20 to 21.40 on 42, 49 and 32 m.
In Italian:	From 21.40 to 22.00 on 42, 49 and 32 m.
In Portuguese:	(to Brazil): From 22.15 to 22.45 on 32 and 25 m.
In Spanish:	(to Latin America): From 23.57 to 02.57 on 32 and 25 m. (to Spaniards living in America): From 22.45 to 24.00 on 32 and 25 m. (to the Philippines): From 11.00 to 11.45 on 31 and 19 m. (to Spaniards living abroad): From 11.30 to 12.00 on 50 and 293 m. (to Guinea and West Africa): From 15.45 to 16.20 on 31 m. (to Missionaries in the East): From 12.15 to 12.30 on 25 and 19 m.

THE VOICE OF SPAIN brings thirtyfour informatory broadcasts in twenty languages to all countries.

OVERSEAS SERVICE:

		m.b.			m.b.
Arabic:	15.30–19.58	32	**Spanish:**	5) 11.00–11.45	31–19
Chinese:	11.45–12.15	25–19		6) 11.30–12.00	293–50
English:	1) 03.10–03.50	49–32		7) 12.15–12.30	25–19
	2) 04.00–04.50	49–32		8) 15.45–16.20	31
	3) 05.00–05.50	49–32		9) 22.45–24.00	32–25
Portug.:	4) 22.15–22.45	32–25		10) 23.57–02.57	32–25

1) USA Ea. Coast. 2) USA We. Coast. 3) USA all states. 4) Brazil. 5) Philippines. 6) Spaniards living abroad. 7) Missionaries in the Ea. 8) Guinea & We. Af. 9) Spaniards living in America. 10) Latin Am.
ANN.: E.: "This is the Voice of Spain broadcasting from the Spanish National Radio in Madrid."
INT.-SIG.: Gong and the following tune:



V. by QSL-card or letter. – **PUB.:** Telediario (weekly).

RED DE EMISORAS DEL MOVIMIENTO (R.E.M.)

(Broadcasting system of the Phalanx)
The Red de Emisoras del Movimiento belongs to the National Delegation of Press, Propaganda and Radio.
ADDR.: Red de Emisoras del Movimiento, Ayala No. 15, Madrid. – **L.P.:** National Delegate: Jesús F. Fueyo. Chief Tec. Section: Teodoro Delgado. Chief Economical Section: J. L. Alcalà. Chief Eng.: M. Vazquez. Prgr.: M. Rojas. Prod.: C. Varber. Coordination: J. Jiménez.
STATIONS:

Call EFE...	Name	kc/s	m	kW	Hours of tr.
1	La Voz de Valladolid	1079	278	1	11.00–24.00 (Sun. 00.30)
2	R. Teruel E.S.	1520	197	5	12.00–15.30, 20.00–24.00
4	R. Palencia	1358	221	1	13.00–17.00, 20.00–24.00
5	La Voz de León	1250	240	1	11.00–17.00, 20.00–01.00
6	R. Cáceres	1079	278	1	12.30–15.30, 20.00–00.30
7	R. Denia	1403	213	0.7	12.30–16.00, 19.00–23.00
8	La Voz de Alicante	1358	221	2	09.30–00.30
9	R. Villafranca del Panadés	1079	278	1	13.00–15.00, 20.00–23.00
10	R. Alava	1385	217	0.5	10.00–16.00, 18.00–24.00
11	R. Utiel	1358	221	0.2	12.30–16.00, 20.30–24.00
12	R. Monovar	1385	217	0.05	12.30–16.00, 19.30–24.00
13	R. Sagunto	1385	217	1	11.00–16.00, 19.00–24.00
14	La Voz de Madrid	1223	245	20	08.00–01.00
15	R. Ferrol	1358	221	2	12.15–16.00, 20.00–24.00
16	R. Puigcerdá	1079	278	1	12.00–15.30, 18.00–23.30
17	La Voz de Levante	1079	278	5	11.00–01.00
18	R. Játiva	1358	221	0.5	11.00–16.00, 19.00–24.00
20	R. Ripoll E.S.	1520	197	0.2	21.00–23.00
21	R. Cazorla E.S.	1358	221	0.2	15.00–17.00, 13.00–18.00
22	R. Oviedo	1385	217	5	10.00–00.30
23	La Voz de Guipuzcoa	1079	278	5	09.30–00.30
24	R. Orihuela	1079	278	0.2	12.00–16.00, 18.00–24.00
25	R. Cantabria	1358	221	2	10.00–24.00
26	R. Luarca	1358	221	0.4	12.00–15.00, 20.00–22.00
27	R. Maresma de Mataró E.S.	1520	197	2	12.30–16.00, 19.00–23.30
28	R. Tortosa	1250	240	1	12.00–16.00, 19.00–23.00
29	R. Tudela E.S.	1520	197.4	2	13.00–15.00, 20.00–21.00
31	La Voz de Vigo	1079	278	5	08.00–10.00, 13.00–17.00 21.00–01.00
32	R. Avila	1520	197.4	1	13.30–16.30, 20.00–24.00
33	R. Tarragona	1570	191.1	5	10.00–16.00, 19.00–24.00
34	R. Atlántico	1520	197.4	2	11.00–15.30, 18.00–24.00
35	R. Tárrega E.S.	1520	197.4	1	12.00–16.00, 20.00–24.00
38	R. Badajoz E.S.	1520	197.4	5	09.15–10.00, 13.00–16.00 20.00–01.00
39	R. Berga	1385	217	0.2	12.00–16.00, 19.00–23.00
40	La Voz de la Costa Brava	1250	240	1	12.00–16.30, 20.00–24.00
41	R. Olot	1250	240	0.2	12.00–16.00, 19.00–23.00
42	R. Sueca	1358	221	0.5	12.00–16.00, 19.30–24.00
43	R. Requena	1520	197.4	0.5	13.00–16.00, 21.00–24.00
44	R. Picasent	1385	217	0.01	12.00–16.00, 19.30–23.30
45	La Voz de Granada E.S.	1520	197.4	2	09.30–14.45, 19.00–01.00
46	R. Guadasuar	1358	221	0.1	12.30–15.00, 20.00–24.00
47	R. Cullera	1385	217	0.2	13.00–16.00, 20.00–24.00
48	R. Carlet	1520	197.4	0.4	12.30–15.00, 20.00–23.30
49	R. Chelva	1385	217	0.06	13.00–15.00, 21.00–23.00
50	La Voz de Cataluña	1358	221	5	08.00–24.00
51	R. Mora de Ebro	1385	217	0.04	12.00–16.00, 20.00–24.00
52	R. Vendrell	1385	217	0.04	12.30–15.30, 19.30–23.30
53	R. Roda de Ter	1520	197.4	0.025	13.00–15.00, 20.00–22.00
54	R. Cardona	1520	197.4	0.4	13.30–15.00, 20.00–22.00
55	R. Vich	1079	278	0.6	12.00–24.00
56	R. Blanes	1079	278	0.2	12.30–16.00, 20.00–23.00
57	La Voz de Navarra	1358	221	5	12.30–16.00, 20.00–23.00
59	R. Manises	1520	197.4	0.3	12.00–16.00, 19.00–24.00
61	R. Adra	1079	278	0.05	13.30–16.30, 20.30–23.00

Main Station EFE14 "La Voz de Madrid":
Dir.: Teodoro Delgado. Chief Tec.: Sr. G. Cabañas. Prgr.: M. Rojas. Prod.: C. Barber. Adm.: J. L. Alcalá.
Directors: EFE1 D. Antolín Santiago. – EFE4 D. Enrique González. – EFE5. D. José Luis Pérez Pereletegui. – EFE6. D. Antonio Muñoz Gras. – EFE8. D. José Luis Ferrer Pérez. – EFE14. D. Teodoro Delgado Pomata. – EFE15. D. José María López Ramón. – EFE17. D. Vicente Beta Frígola. – EFE22. D. Julio del Caño Herreras. – EFE23. D. Antonio García Maylín. – EFE 25. D. Santiago Basoa Barañano. – EFE31. D. Luciano Rodriguez Gómez. – EFE33. D. José María Tarrasa Alvira. – EFE 50. D. Fulgencio-Carlos Gómez López. – EFE57. D. José María Pérez Salazar.
The addresses of the stations: See the advertisement.
ANN.: "EFE... La Voz de..." or "Radio... de la Red de Emisoras del Movimiento." – **V.** by letter.

The School stations of Youth listed below also belong to the Red de Emisoras de Movimiento (R.E.M.).

SERVICIO NACIONAL DE RADIODIFUSION Y CINE DEL FRENTE DE JUVENTUDES

Organization: For the educational work of Radio and Film in Spain and for training of people engaged with Radio and Film. – **L.P.:** Dir. of the Service: D. Anibal Arias Ruiz. Gen. Secr.: D. German Bonet Marco. Chief-Eng.: D. Francisco Diaz Gúerra. Chief Techn. Dept.: D. Manúel Sanz Sagredo. Dir. Prgr.: D. Francisco Ruiz Púertas. Chief Public Relation: D. Manúel Rodrigúez Zúasti. Chief Editor: D. Ignacio Hilario de la Mota Oreja. Organizer: D. Enrique Dominguez Millan.
ADDR.: Diego de Leon 49, Madrid.
SCHOOL-STATIONS: A network of 60 school-stations used for ordinary broadcasting and for a three years training of professionals for Radio (Speakers, actors, lecturers, engineers, programme controllers, organizers, directors).
STATIONS:

Call	kc/s	m	kW	Name of Station
EFJ1	1106	271.0	0.8	R. Juventud de España
EFJ2	1450	207	0.8	R. – – Soria
EFJ5	1048	213	0.8	R. – – Cadiz
EFJ6	7281	41.20	0.04	R. – – Almansa
EFJ8	7100	42.25	0.015	R. – – Ribadavia
EFJ9	1367	219.45	0.8	R. – – Guadalajara
EFJ10	1500	199.73	0.8	R. – – Algemesi
EFJ11	1205	248.96	0.5	R. – – La Coruña
EFJ12	1349	222.4	0.5	R. – – Sabadell
EFJ15	836	358.85	1.	R. – – Barcelona
EFJ16	7140	42.02	0.060	R. – – Mérida
EFJ17	7260	41.32	0.045	R. – – Ayora
EFJ19	1307	229.56	0.8	R. – – Murcia
EFJ22	1392	215.2	0.8	R. – – Menorca
EFJ23	1360	220	0.8	R. – – Albacete
EFJ25	1304	230	0.8	R. – – Almeria
EFJ28	1595	188	0.8	R. – – de Baza
EFJ31	1250	240	0.8	R. – – Balaguer
EFJ33	1511	198.54	0.8	R. – – Villena
EFJ35	1106	270	0.8	R. – – Burjasot
EFJ43	1250	240	2	R. – – Vizcaya
EFJ46	1390	205.8	2	R. – – Zaragoza
EFJ51	1415	212	0.1	R. – – Ayamonte
EFJ55	1429	209.9	1	R. – – Campo de Gibraltar
EFJ56	1107	271	2	R. – – Málaga
EFJ56	1388	216	0.4	R. – – Málaga
EFJ59	1480	203.4	0.2	R. – – Ciudad Rodrigo

+33 low power stations less 0.5 kW.
D.PRGR.: consist of cultural and educational prgrs., information service about the youth-work, actualities and entertainment.
ANN.: "Habla RADIO JUVENTUD DE..... Estacion Escuela no. ... de la Cadena Azul del Frente de Juventudes."
SINTONIA: „Juventud Española", march-song of del Frente de Juventudes. – **INT.-SIG.:** Two notes of trumpet.
PUBLICATIONS: "Cine – Radio – Television", monthly, 100 pages.

SOCIEDAD ESPANOLA DE RADIODIFUSION (Comm.)

ADDR.: Av. de José Antonio 32, Apt. 745, Madrid.
Cable: SER. – **L.P.:** Pres.: A. Garrigues y Diaz Cañabate. Dir. Gen.: V. Oñate Sánchez. Dir. Tec.: F. Martinez Gonzáles. Dir. Prgr.: M.

RED DE EMISORAS DEL MOVIMIENTO (R. E. M.)

ADDRESS: Ayala 15 - MADRID - SPAIN

EMISORA CENTRAL

EFE 14, LA VOZ DE MADRID

EFE 23 La Voz de Guipúzcoa
Victor Pradera, 12. - San Sebastián.

EFE 22 Radio Oviedo
Asturias, 9. - Oviedo.

EFE 26 Radio Luarca
Luarca (Asturias).

EFE 15 Radio Ferrol
José Antonio, 75. El Ferrol del Caudillo (La Coruña).

EFE 31 La Voz de Vigo
Avda. Garcia Barbón, 3. Vigo (Pontevedra)

EFE 25 Radio Cantabria
Pasaje del Arcillero, 2. Santander.

EFE 4 Radio Palencia
Becerro de Bengoa s/n. Palencia.

EFE 57 La Voz de Navarra
Navarro Villoslada, 17. Pamplona.

EFE 29 Radio Tudela (E.S.)
Eza, 5. Tudela (Navarra)

EFE 10 Radio Alava
Calvo Sotelo, 34. Vitoria.

EFE 5 La Voz de León
Ordoño II, 28. León.

EFE 1 La Voz de Valladolid
Angustias, 1. Valladolid.

EFE 32 Radio Avila (E.S.)
Vallespín, 14. Avila

EFE 33 Radio Tarragona
Rambla del Generalísimo, 77. Tarragona.

EFE 51 Radio Mora de Ebro.
Valle, 9. Mora de Ebro (Tarragona).

EFE 52 Radio Vendrell
San Magín, 5. Vendrell (Tarragona).

EFE 28 Radio Tortosa
Teodoro Gonzalez, 4. (Tortosa Tarragona)

EFE 50 La Voz de Cataluña
Plaza de la Universidad, 3. Barcelona.

EFE 9 Radio Villafranca del Panadés
Plaza. Generalísimo, 13. Villafranca del Panades (Barcelona).

EFE 39 Radio Berga.
Plaza. San Pedro, 9. Berga (Barcelona).

EFE 54 Radio Cardona.
Plaza. Generalísimo, 5. Cardona (Barcelona).

EFE 27 Radio Maresma de Mataró (E.S.)
Generalísimo, 45. Mataró (Barcelona)

EFE 16 Radio Puigcerdá.
Plaza Mayor, 19. Puigcerdá (Gerona).

EFE 20 Radio Ripoll (E.S.)
Plaza del Caudillo, 5. Ripoll (Gerona)

EFE 40 La Voz de la Costa Brava.
Ave María, 3. Palamós (Gerona).

EFE 41 Radio Olot
Plaza del Carmen. Olot (Gerona)

EFE 53 Radio Roda de Ter.
Bach, 43. Roda de Ter (Barcelona).

EFE 55 Radio Vich
San Antonio, 4. Vich (Barcelona).

EFE 56 Radio Blanes.
Mercaderes, 4. Blanes (Gerona).

EFE 35 Radio Tárrega (E.S.)
Avda de Cataluña, 17. Tárrega (Lérida)

EFE 17 La Voz de Levante
Pascual y Genis, 27. Valencia.

EFE 11 Radio Utiel.
Alamos, 4. Utiel (Valencia).

EFE 13 Radio Sagunto.
Comandante Padín Arnaiz, 7. Sagunto (Valencia).

EFE 18 Radio Játiva.
Moncada, 14. Játiva (Valencia).

EFE 42 Radio Sueca.
Plaza de los Reyes Católicos, 9. Sueca (Valencia).

EFE 43 Radio Requena.
Villajoyosa, 3. Requena (Valencia).

EFE 44 Radio Picasent.
Santa Ana, 11. Picasent (Valencia)

EFE 46 Radio Guadasuar.
Santa Lucía, 11. Guadasuar (Valencia).

EFE 47 Radio Cullera.
Doctor Alemany, 6. Cullera (Valencia).

EFE 48 Radio Carlet.
Maestro Martínez, 5. Carlet (Valencia).

EFE 49 Radio Chelva.
Clavel, 18. Chelva (Valencia)

EFE 59 Radio Manises.
Valencia, 4. Manises (Valencia).

EFE 2 Radio Teruel (E.S.)
Plaza de General Mola, 11. Teruel.

EFE 8 La Voz de Alicante.
Angel Lozano, 14. Alicante.

EFE 7 Radio Denia.
Marqués del Campo, 23. Denia (Alicante).

EFE 12 Radio Monovar.
Mayor, 129. Monevar (Alicante).

EFE 24 Radio Orihuela.
Ramón y Cajal, 38. Orihuela (Alicante).

EFE 38 Radio Badajoz (E.S.)
Cardenal Carvajal, 2. Badajoz.

EFE 6 Radio Cáceres.
Ronda del Carmen, 4. Cáceres.

EFE 45 La Voz de Granada (E.S.)
Recogidas, 9. Granada.

EFE 21 Radio Cazorla (E.S.)
Gómez Calderón. Cazorla (Jaén).

EFE 61 Radio Adra.
Adra (Almería).

EFE 34 Radio Atlántico
Buenos Aires 26
Las Palmas de Gran Canaria

Aznar. Dir. Adm.: P. Estaun Ipiens. Dir. Transm.: M. Rodriguez Cano. Dir. Inf.: Srta M. Josefa Rubio.

STATIONS: 37 m.w. st., 1 s.w. st.

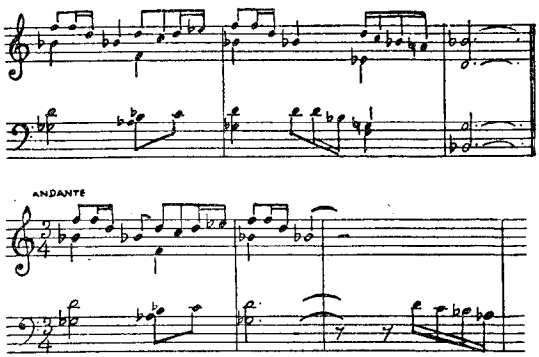
	Call	kc/s	m	kW	Hours of Transmission
R. Madrid	EAJ7	683	439.2	20	07.00–24.00
R. Barcelona	EAJ1	809	370.8	10	06.15–24.00
R. Valencia	EAJ3	1259	238.3	5	07.00–24.00
R. Galicia[1]	EAJ4	1448	207.2	2	12.30–23.00
R. Sevilla	EAJ5	800	375.0	5	07.30–24.00
R. S. Sebastian	EAJ8	1025	292.7	5	08.00–23.30
R. Reus	EAJ11	1412	212.5	2	11.00–23.30
R. Bilbao	EAJ28	1133	264.8	2	09.00–23.30
R. Alicante	EAJ31	1448	207.2	2	10.00–23.30
R. Alcira	EAJ54	1493	200.9	2	09.00–23.30
R. Mediterraneo, Valencia		6995	42.89	1	11.00–15.00, 18.00–23.30

ASSOCIATED STATIONS:

R. Tánger		1079	278.0	10	08.00–22.30
R. Mallorca	EAJ13	1430	209.8	5	11.00–15.00, 17.00–23.00
R. Castellon	EAJ14	1502	199.7	2	11.00–15.00, 17.00–23.00
R. Granada	EAJ16	1448	207.2	2	08.00–24.00
R. Murcia	EAJ17	1511	198.5	2	08.00–24.00
R. Rioja (Logroño)	EAJ18	1487	202.1	2	11.00–15.00, 18.00–23.00
R. Huesca	EAJ22	1475	203.4	2	12.00–15.00, 19.00–23.00
R. Gandia	EAJ23	1412	212.5	2	10.00–16.00, 18.00–23.00
R. Castilla (Burgos)	EAJ27	1448	207.2	2	12.30–15.00, 19.00–23.00
R. Santander	EAJ32	1484	202.2	2	11.00–23.00
R. Gijón	EAJ34	1492	201.1	2	10.00–16.00, 18.00–23.00
R. Pontevedra	EAJ40	1493	200.9	2	12.00–15.30, 19.30–23.00
R. Coruña	EAJ41	1295	231.7	2	13.00–23.00
R. Albacete	EAJ44	1493	200.9	2	09.00–23.00
R. Valladolid	EAJ47	1475	203.4	2	11.30–23.30
R. Vigo	EAJ48	1403	214	2	09.00–15.00, 18.00–23.00
R. Las Palmas	EAJ50	1313	228.5	2	10.30–23.30
R. Extremadura[2]	EAJ52	1484	202.2	2	11.00–23.00
R. Salamanca	EAJ56	1331	225.4	2	12.00–23.00
R. Jerez[3]	EAJ58	1492	201.1	2	12.00–15.00, 17.00–23.00
R. Jaen	EAJ61	1450	207.0	2	12.00–15.00, 17.30–23,00
R. Vitoria	EAJ62	1385	216.6	2	09.00–23.00
R. Leon	EAJ63	1502	199.7	2	11.00–15.30, 19.00–23.00
R. Segovia	EAJ64	1502	199.7	2	12.00–15.00, 19.00–23.00
R. Ciudad Real	EAJ65	1493	200.9	2	17.30–23.00
R. Zamora	EAJ72	1375	218.0	2	12.00–23.00
R. Zaragoza	EAJ101	872	344	30	09.00–15.00, 17.00–24.00

[1]) Santiago Compostela. [2]) Bajadoz. [3]) Jerez de la Frontera.

NATIONAL SERVICE:
The prgrs. of Sociedad Española are rel. simultaneously by all st. at the following hours: 19.00–19.30 (Mo.-Fri.), 20.00–22.00 (Tues.-Sat.), 21.30–22.20 (Tues., Thurs., Fri.), 18.30–19.30 (Sun.).
ANN.: National Service: "Transmite la Sociedad Española de Radiodifusión a través de su gran cadena de 38 emisoras". – Sociedad Española de Radiodifusion: "Transmite EAJ, Radio... de la Sociedad Española de Radiodifusion". – INT.-SIG. for Home Sce.:



V. by letter. – PUB.: "ONDAS" fortnightly.

COMPANIA DE RADIODIFUSION INTERCONTINENTAL (Comm.)
ADDR.: R. Intercontinental, Diego de Leon, 50, Madrid. Cable: "Ondatlantic".
HOME SERVICE: EAJ29 953 kc/s 314.8 m 20 kW: 09.00–00.30.

AFFILIATED STATIONS:

Name	kc/s	m	kW	Name	kc/s	m	kW
R. Alcoy	1490	201	0.8	R. Melilla	1492	201	0.2
R. Algeciras	1500	200	0.2	R. Onteniente	1500	209	0.5
R. Alicante	7940	37.78	1.2	R. Orense	1492	200	0.2
R. Almeria	1493	201	0.2	R. Asturias	1258	238	0.35
R. Cadiz	1495	201	0.2	R. Andorra	998	301	60
R. Córdoba	1447	207	0.2	R. Andorra o.c.	5972	50.22	25
R. Huelva	850	352	2	R. Africa	935	321.0	15
R. Lérida	1492	201	0.2	R. Renascença	6154	48.74	0.6
R. Linares	1492	201	0.2	R. Renascença	1169	256.6	1
R. Lugo	1500	200	0.2	R. Elche	1519	197	0.2
R. Malaga	989	308	8	R. León	1504	200.6	0.2
R. Manresa	1492	201	0.2				

ANN.: "Aqui Madrid Emisora Radio Intercontinental."

RADIO ESPANA
ADDR.: Manuel Silvela 9, Madrid.
HOME SCE.: Madrid EAJ2 854 kc/s 351.2 m 7.5 kW: 07.00–23.30.
ADDR.: Rambla de los Estudios 8, Barcelona.
HOME SCE.: EAJ15 1124 kc/s 266.9 m 3 kW: 12.30–23.00.

★ SWEDEN ★

L.T.: GMT+1 h. – L.: Swedish. – Rcvrs.: 2.625.509.

SWEDISH BROADCASTING CORPORATION (Non comm. semi-govt. broadcasting corporation).
ADDR.: Sveriges Radio A/B, Stockholm 7. Cable: "Broadcasts".
L.P.: Chairman Board of Governors: Per Eckerberg. Dir. Gen.: Olof Rydbeck. Deputy Dir. Gen.: Sven Jerring. Dir. of Prgr., Radio: Nils-Olof Franzén. Dir. Prgr., TV: Henrik Hahr. Dir. Adm.: Erik Mattson. Dir. Tec. Radio and TV: Johan von Utfall. Dir. Music: Nils Castegren. Dir. Drama: Palle Brunius. Dir. Foreign Sce.: Roland Pålsson. Dir. Publications Dept.: Manne Ginsburg. Dir. Spoken Word: Nils-Erik Baehrendtz. Head of Press and Information: Philip von Krusenstjerna. Head External Relations: Karin Bergman.
DISTRIBUTION OF PROGRAMMES: ADDR.: The Board of Telecommunications, Stockholm 16. Cable: "Gentel."
L.P.: Dir. Gen.: H. Sterky. Chief of Radio Division: E. Esping. Chief of Broadcasting Section: K. Ekström.
STATIONS:
Medium Waves:

Station	Prgr.	kc/s	m	kW	Station	Prgr.	kc/s	m	kW
Luleå	1	182	1648	10	Jönköping	2	1484	202	0.2
Motala	1	191	1571	150	Karlstad	2	1484	202	0.15
Östersund	1	420	714	10	Kiruna	2	1484	202	0.15
Sundsvall	1	593	506	150	Kristinehamn	2	1484	202	0.15
Östersund	1	719	417	150	Luleå	2	1484	202	0.15
Malmberget	1	773	388	2.0	Malmberget	2	1484	202	0.15
Stockholm	1	773	388	150	Stockholm	2	1484	202	0.25
Göteborg	1	980	306	150	Sundsvall	2	1484	202	0.15
Hörby	1	1178	255	100	Trollhättan	2	1484	202	0.15
Falun	1	1223	245	100	Uddevalla	2	1484	202	0.15
Eskilstuna	1	1394	215	0.5	Varberg	2	1484	202	0.15
Hälsingborg	1	1394	215	1.5	Porjus	1	1529	196	0.075
Jönköping	1	1394	215	2.0	Söderhamn	1	1529	196	0.06
Karlskrona	1	1394	215	1.5	Umeå	1	1529	196	1.5
Kiruna	1	1394	215	0.5	Borås	1	1562	192	2.0
Kristinehamn	1	1394	215	0.15	Halmstad	1	1562	192	2.0
Säffle	1	1394	215	0.15	Kalmar	1	1562	192	2.0
Trollhättan	1	1394	215	2.0	Karlstad	1	1562	192	0.25
Umeå	2	1394	215	0.15	Malmö	1	1562	192	2.0
Uppsala	1	1394	215	0.15	Norrköping	1	1562	192	1.5
Varberg	1	1394	215	2.0	Uddevalla	1	1562	192	0.5
Visby	1	1394	215	0.5	Örebro	1	1562	192	0.5
Falkenberg	1	1448	207	0.15	Boden	2	1594	188	0.15
Gävle	1	1448	207	0.5	Hudiksvall	2	1594	188	0.15
Hudiksvall	1	1448	207	1.5	Mariestad	2	1594	188	0.15
Västerås	1	1448	207	2.0	Piteå	2	1594	188	0.15
Örnsköldsvik	1	1448	207	1.5	Porjus	1	1594	188	0.075
Göteborg	2	1484	202	0.25	Vänersborg	2	1594	188	0.15
Halmstad	2	1484	202	0.15	Örnsköldsvik	2	1594	188	0.15

Short Waves: Hörby I, II 100 kW. *Motala 12 kW.

kc/s	m	Prgr.	kc/s	m	Prgr.	kc/s	m	Prgr.
6065	49.46	1	7270*	41.47	2	11880	25.25	1

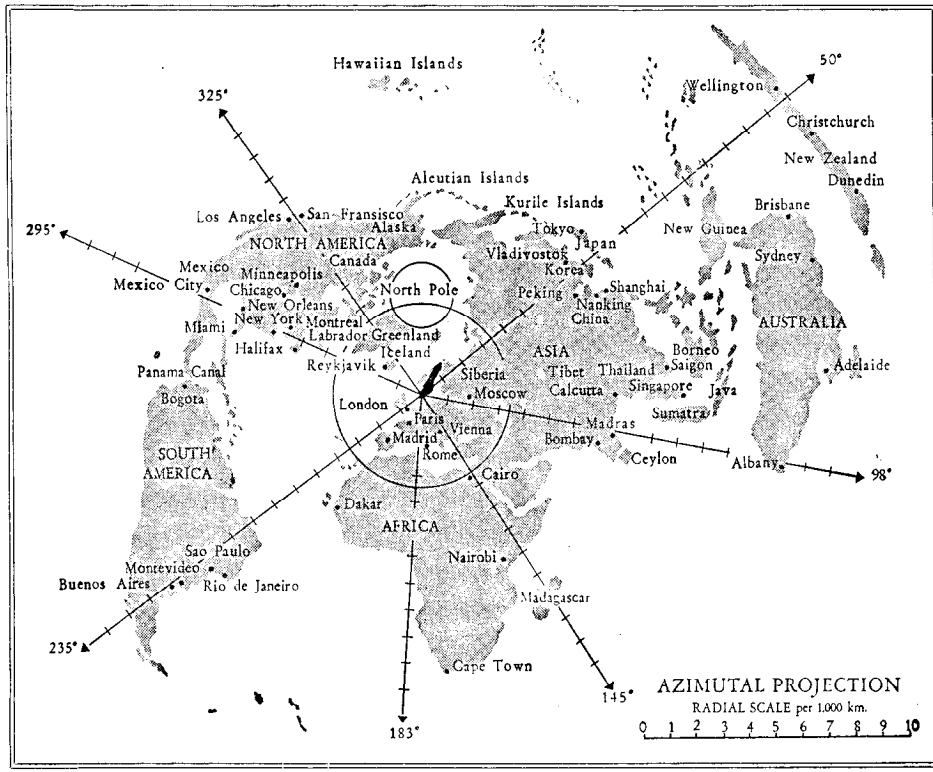
FM:

Stations	Prgr.	mc/s	kW	Stations	Prgr.	mc/s	kW
Varberg	1	87.6	3	Hörby	2	92.4	15
Östersund	1	87.9	60	Stockholm	1	92.4	60
Borås*	1	88.5	3	Bäckefors	1	92.7	15
Borlänge	1	89.4	15	Sundsvall*	1	92.7	15
Norrköping	1	90.0	15	Hälsingborg	1	92.8	3
Halmstad	1	91.2	15	Borlänge	2	93.0	15
Örebro	2	91.5	1.5	Malmö*	1	93.3	3
Östersund	2	91.5	60	Norrköping	2	93.5	15
Göteborg	1	92.1	15	Varberg	2	93.6	3

"THIS IS RADIO SWEDEN"

calling the rest of the world with beamed transmissions in six languages daily: **ENGLISH · FRENCH · GERMAN SPANISH · PORTUGUESE · SWEDISH** *and bringing you News, Music & Feature Programmes from Sweden, over Radio Sweden's 100 K/W transmitters.*

„The transcription service *offers a wide range of recorded programmes about Sweden for rebroadcast in other countries."*



See p. 82 for schedules.

Gävle	1	93.9	15	Stockholm	2	96.6	60
Nässjö	1	94.2	15	Bäckefors	2	96.8	15
Boden	1	94.5	15	Sundsvall	2	96.9	15
Borås	2	94.6	3	Skövde	2	97.5	15
Skövde	1	95.1	15	Västerås	2	98.4	15
Halmstad	2	95.4	15	Gävle	2	98.7	15
Hälsingborg	2	95.7	3	Malmö	2	98.7	1.5
Västerås	1	95.7	15	Nässjö	2	99.0	15
Göteborg	2	96.3	15	Boden	2	99.4	15

FM tr. ready in 1959:

Stations	Prgr.	mc/s	kW	Stations	Prgr.	mc/s	kW
Uppsala	1	90.4	10	Västervik	2	96.0	15
Uppsala	2	94.8	10	Hörby	1	88.8	60
Västervik	1	91.8	15	Hörby**)	2	92.4	60

*) completement of tr. in use. – **) replacement of tr. in use.

HOME SERVICE

FIRST PRGR.: W. 05.00–22.00 (approx). Sun. 06.20–22.00 (approx). The following long and medium wave stations are generally the most reliable for listeners in Europe: Motala 150 kW, 191 kc/s and Hörby 100 kW, 1178 kc/s.

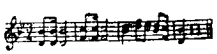
SHORT WAVES:
05.00–09.00, 17.45–21.30 6065 kc/s. – 09.00–12.15 11880 kc/s. – **N.:** 05.30 (W), 07.00, 11.30, 18.00, 21.15. – **Wrp.:** 05.40 (W), 07.10, 11.40, 17.55, 21.25. – **Weather Forecast for Swedish Waters:** 16.53. – **Bells of the Town Hall in Stockholm:** W. 11.00.

SECOND PRGR.: 16.00–21.15. – **N.:** 16.00, 16.55, 20.00.

ANN.: (Nat. Prgr.): "Sveriges Radio..." and the name of the transmitting station. For instance: "Sveriges Radio, Stockholm".

INT.-SIG.: Home Service (2nd Prgr.): From Bellmann's "Fredmans Epistel No. 64: "Fäll dine ögon skäms nu din tossa".

Home Service 1st Prgr.: Home Service 2nd Prgr.:



FOREIGN SERVICE

STATIONS: Hörby – 100 kW

kc/s	m	kc/s	m	kc/s	m
1178	254.7	9620	31.19	11880	25.25
6065	49.46	11705	25.63	15240	19.69
7210	41.61	11810	25.40	17840	16.82

EUROPEAN SERVICE:

English:
20.30–21.00 7210
00.00–00.30 1178

French:
22.00–22.30 6065
23.30–24.00 1178

German:
21.30–22.00 6065
23.00–23.30 1178

Portuguese:
22.00–22.45 11705

Spanish:
21.15–21.45 11705

OVERSEAS SERVICE:

Periods: 1. per. Nov., Dec., Jan., Febr. – 2 per. March, April. – 3 per. May-August. – 4 per. Sept., Oct.

Service	h. of tr.	L.	1. per. kc/s	2. per. kc/s	3. per. kc/s	4. per. kc/s
W. No.A.	02.30–03.15	Swedish	9620	11810	11810	11810
	03.15–03.45	English				
Ea. No. Am.	14.00–14.30	English	17840	17840	17840	17840
	01.00–01.45	Swedish	11810	11810	11810	11810
	01.45–02.15	English				
Mex.-C. Am.	04.00–04.45	Spanish	11810	11810	11810	11810
So. Am.	23.00–23.45	Spanish	9620	9620	11705	9620
	23.45–00.30	Portugs.	11705	11705	15240	11705
	01.00–01.45	Swedish	11705	11705	11705	11705
	01.45–02.30	Portugs.				
	02.30–03.15	Spanish				
Africa	17.45–18.15	English	15240	15240	15240	15240
	18.15–19.00	Swedish				
	19.15–19.45	French	11705	11705	11705	11705
	19.45–20.15	English				
M. East	16.15–16.45	English	11705	11705	11705	11705
	16.45–17.30	Swedish	15240	15240	15240	15240
So. Asia	14.45–15.15	English	9620	15240	15240	15240
	15.15–16.00	Swedish	15240	17840	17840	17840
Far East	12.30–13.00	English	9620	15240	15240	15240
	13.00–13.45	Swedish	15240	17840	17840	17840

Radio Sweden reserves the right to alter the schedule if necessary.

SWEDEN CALLING DX-ers: Every Mo. in all English & French language broadcasts. Every Wed. in the German broadcast. Beginning fall 1958 also in Spanish and Portuguese.

ANN.: "This is Radio Sweden". – **F.:** "Ici Stockholm". – **G.:** "Hier ist der schwedische Rundfunk, Stockholm". – **Sp.:** "Habla Estocolmo". – **P.:** "R. Suécia apresenta". – **Sw.:** "Sveriges radio, Stockholm".

INT.-SIG.: Home Service (1st Prgr.) and Foreign Service: The first movement of Carl Michael Bellman's: "Storm och böljor tystna ren."

V. by QSL-card, folder and/or letter. R. Sweden will appreciate all letters and reports on reception of the transmissions. Prgr. schedules by writing to Radio Sweden, Stockholm 7.

PUB.: *Monthly:* "Radio Sweden" in six languages: English, French, German Spanish. Portuguese, Swedish.

IBRA RADIO AB (Non-Comm., Non-Go., Christian)

ADDR.: IBRA RADIO, Box 821, Stockholm 1. — **Studios:** The main studio in Sveavägen 34. Stockholm. Co-workers in Tangier, Belgium, Canada, Denmark, Finland, France, Germany, Gt. Britain, Holland, Italy, Japan, Norway, Portugal, U.S.A. — **Cable:** "IBRARADIO".

L.P.: Pres.: Dr. Lewi Pethrus. Vice Pres.: Karl G. Ottoson. Dir. Prgr.: H. Carlsson.

STATIONS: R. Africa Tanger

935 kc/s	321.1 m	125 kW	–	11517 kc/s	26.04 m	10	kW
9275 –	32.34 –	10 –	–	14829 –	20.20 –	2.5	–

Freq. are subject to change in order to avoid interference.

SHORTWAVE SCE.:

Swedish: D.: 18.30–20.15, 21.00–21.15, 21.45–22.15 (exc. Wed.). – **Addr.:** Ibra Radio, Box 821, Stockholm, Sweden.

Norwegian: D. exc. Wed. 17.30–18.00. – **Addr.:** Ibra Radio, St. Olavsgat. 24, Oslo, Norway.

Danish: Tues.–Fri. 20.45–21.00. – **Addr.:** Ibra Radio, Box 151, Copenhagen K, Denmark.

Finnish: Wed. 17.30–18.00. Fri. 20.15–20.30. – **Addr.:** Ibra Radio, Helsinki, Finland.

French: D. exc. Mo. 18.15–18.30. – **Addr.:** Ibra Radio, B.P. 1060, Rouen, France.

French (for Belgium): Mo. 18.15–18.30. – **Addr.:** Ibra Radio, LVC BP 32, Namur, Belgium.

Dutch: Tues., Thurs., Sat. 20.15–20.30. – **Addr.:** Ibra Radio, Breda, Holland.

German: D. 20.30–20.45 (Sun. 20.15–20.45). – **Addr.:** Ibra Radio, Hamburg 6, Germany.

English: Tues., Fri., Sat. 17.15–17.30. D. 21.15–21.45. – **Addr.:** Ibra Radio, Luton, Beds., England. – U.S. office: Ibra Radio Mission, Inc., 1469 Catalpa Ave., Chicago 40. Ill. Canada office: Ibra Radio Mission, 83, Broadway Ave., Toronto, Ont.

Italian: Sat.–Mo. 20.45–21.00. Wed. 20.15–20.30. – **Addr.:** Ibra Radio, Casella Postale 2388, Roma, Italy.

Russian: Tues., Sat. 18.00–18.15. **Polish:** Sun., Fri. 18.00–18.15. **Hungarian:** Mo., Thurs. 18.00–18.15. **Estonian:** Mo. 17.15–17.30. **Greek:** Wed. 18.00–18.15. **Ukrainian:** Sun., Thurs. 17.15–17.30. **Serbian:** Mo. 20.15–20.30. **Slovak:** Wed. 17.15–17.30. – **Addr.:** as for Swedish.

Japanese: Wed. 21.45–22.00. – **Addr.:** Ibra Radio, P.O. Box 126, Yokohama, Japan.

Last **Tues.** of every month prgr. in **Esperanto** at 19.00–19.15. **Addr.** as Swedish.

Last Wed. of every month **prgr. for DX-ers** at 19.30–19.45.

MEDIUM WAVE SCE.:

Italian: Thurs., Sat. 21.45–22.00. – **Addr.:** see s.w.-sce.

French: Mo., Wed., Fri. 17.15–17.30. Sun., Tues., Sat. 21.30–21.45. – **Addr.:** see s.w.-sce.

Spanish: Sun. 07.45–08.00. W. 06.45–07.00. Mo., Wed., Thurs., Fri. 21.30–21.45. – **Addr.:** Ibra Radio, Tanger, Morocco.

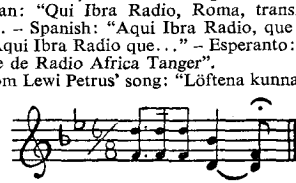
Portuguese: Sun., Tues., Thurs., Sat. 17.15–17.30. Mo., Tues., Wed., Fri. 21.45–22.00. – **Addr.:** Ibra Radio, Apt. 133, Lisboa-Norte, Portugal.

English: Sun. 21.45–22.00. – **Addr.:** see s.w.-sce.

Ibra Radio reserves the right to alter the schedules if necessary.

ANN.: Swedish: "Detta är Ibra Radio, som sänder över Radio Africa Tanger". – Norwegian: "Dette er Ibra Radio, Norge, som sender på kortbølge over Radio Africa Tanger". – Danish: "De lytter til Ibra Radio, Danmark, der på kortbølge sender over Radio Africa, Tanger". Finnish: "Täällä Ibra Radio, Helsinki". – Dutch: "Hier is de Ibra Radio, die uitzendt over Radio Africa Tanger". – German: "Hier ist Ibra Radio, Deutschland und sendet über Radio Africa Tanger". – English: "This is Ibra Radio, transmitting from Radio Africa Tanger". French: "Ici Ibra Radio, France". – Belgian: "Ici Ibra Radio, Belgique". – Italian: "Qui Ibra Radio, Roma, transmessa da Radio Africa Tanger". – Spanish: "Aqui Ibra Radio, que transmite...". – Portuguese: "Aqui Ibra Radio que..." – Esperanto: "Jen Radio Ibra kiu sendas pere de Radio Africa Tanger".

INT.-SIG.: From Lewi Petrus' song: "Löftena kunna ej svika."



V. by QSL-card. Listeners reports of prgr. in different languages can be addressed to the addr. above of the countries mentioned. Most of them have different QSL-cards. – **PUB.**: Monthly: "IBRA" in a Swedish and an English edition. Daily: "DAGEN", Sweden's greatest Christian newspaper.

Adv.:
IBRA RADIO FEDERATION (headquarters in Tanger) is an international federation of listeners. Anybody can become a member of this federation. **"IBRA"**, the monthly magazine, is mailed to each member. The membership fee is: Sw. Crowns 25.–, US $ 10.– or Engl. £ 1. IBRA RADIO MISSION is an organ receiving gifts in favour of the Swedish free radiowork.

★ SWITZERLAND ★

L.T.: GMT+1 h. – **L.:** German dialects, French, Italian, Romanche. **Rcvrs.:** 1.334.461.

SWISS BROADCASTING CORPORATION
(A non profit making, pr. Comp.)
ADDR.: Schweizerische Rundspruchgesellschaft, Societé Suisse de Radiodiffusion, Swiss Broadcasting Corporation, Societá Svizzera di Radiodiffusione, Neuengass-Passage 2, Berne. – **Cable:** Radif.
Schweizerischer Kurzwellendienst, Service Suisse des Ondes Courtes, Swiss Shortwave Service, Neuengasse 23, Berne. – **Regional Centres: Radio Zürich,** Brunnenhofstr. 20, Zürich. – **R. Berne,** Schwarztorstr. 21, Berne. – **R. Basel,** Novarastr. 2, Basel. – **R. Lausanne,** Maison de la Radio, La Sallaz, Lausanne. – **R. Genève,** 66, Boulevard Carl Vogt, Genève. – **R. Lugano,** Campo Marzio, Lugano.
L.P.: Pres. of the Board of Adm.: Dr. W. Spühler. Dir. Gen.: M. Bezençon. Head of Adm. and Deputy Dir. Gen.: vacant. Dir. Swiss Shortwave Sce.: P. Borsinger. Deputy Dir. Swiss Shortwave Sce.: Dr. G. H. Padel. Head of Spoken Word in Swiss Shortwave Sce.: Dr. H. de May. Dir. Swiss TV: E. Haas.
Managers of the Regional Centres: Beromünster: Studio Zürich: Dr. Samuel Bächli. Studio Berne: Dr. K. Schenker. Studio Basel: Dr. F. Ernst. **Sottens:** Studio Lausanne: J.-P. Méroz. Studio Genève: Dr. R. Dovaz. **Monte Ceneri:** Studio Lugano: Dr. S. Molo.

HOME SERVICE

GERMAN:
First Prgr.: Sun. 06.45–22.15. Mo.–Fri. 05.15–06.30, 10.00–13.30, 14.59–22.15. Sat. 05.15–06.30, 09.00–22.15.

	kc/s	m	kW		kc/s	m	kW
Beromünster	529	567.1	150	Coire	1367	219.5	0.5
Basel	1367	219.5	0.5	Sool	1367	219.5	0.5

FM: Relay Beromünster:

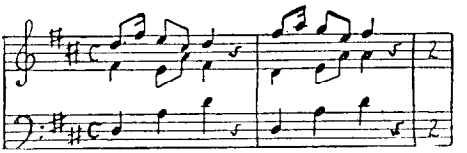
	ch.	mc/s		ch.	mc/s		ch.	mc/s
Niederhorn	42	99.6	Gstaad	30	96.0	Brig I	23	93.9
St. Anton	33	96.9	Tarasp	27	95.1	Leuk	20	93.0
Celerina I	33	96.9	Sool I	26	94.8	Attinghaus.	13	90.9
Ladir I	30	96.0						

Symphony: Tues. 19.00. – **N., Wrp.:** 05.15, 06.00 (Sun. 06.50), 11.30, 18.30, 21.15. – **Commentary:** 18.40. Fri. 18.05 "World Chronicle". Mo. 21.20 Review for Swiss Abroad. – **Mbg.:** Mo. 19.30.
Second Prgr.: D. 18.00–21.15, besides 2 h. Sun. afternoon.

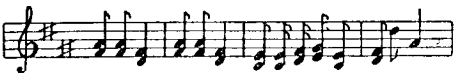
FM:	ch.	mc/s		ch.	mc/s		ch.	mc/s
Basel	40	99.0	Säntis	28	95.4	Brig II	8	89.4
Uetliberg	35	97.5	Bantiger	27	95.1	Celerina II	3	87.9
Sool II	34	97.2	Ladir II	15	91.5			

FRENCH:
First Prgr.: Sun. 06.10–22.15. Mo.–Fri.: 06.00–07.00, 10.00–13.00, 14.59–22.15. Sat. 06.00–07.00, 10.00–22.15 (Wed. 07.00–08.00 Université radiophonique).
Sottens 764 kc/s 392.6 m 150 kW – Savièse 1367 kc/s 219.5 m 0.5 kW
FM: Rel. Sottens: Loèche ch. 4, 88.2 mc/s – Les Ordons ch. 24, 94.2 mc/s – Ravoire ch. 41, 99.3 mc/s.
Symphony: Wed. 19.30. Thurs. 20.30. – **N., Wrp.:** 06.15, 11.45, 18.15, 21.30. – **Commentary:** 17.25 micro-partout, after 17.00 Le micro dans la vie. 18.25 Le miroir du monde (Fri. La situation internationale). – **Mbg.:** Wed. 19.00.
Second Prgr.: D. 18.00–21.30, besides 2 h. Sun. afternoon.
FM: La Dôle ch. 14, 91.2 mc/s.
ITALIAN:
First Prgr.: Sun. 07.00–22.00. Mo.–Fri.: 06.00–06.45, 10.00–13.00, 14.59–22.00. Sat. 06.00–06.45, 10.00–22.00.
Monte Ceneri 557 kc/s 538.6 m 50 kW.
FM: Rel. Monte Ceneri: Monte Morello I ch. 31, 96.3 mc/s.
Symphony: Thurs. 19.30. – **N., Wrp.:** 06.15 (Sun. 07.15), 11.30, 18.15, 21.30. – **Commentary:** 18.20. – **Mbg.:** Sun. 13.00.
Second Prgr.: D. 18.00–21.30, besides 2 h. Sun. afternoon.
FM: Monte Ceneri II ch. 8, 89.4 mc/s – Monte Morello II ch. 6, 88.8 mc/s.

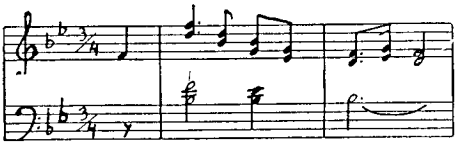
JOINT PRGRS. (Beromünster, Sottens, Monte Ceneri): Mo.–Sat. 10.00–11.00.
ANN.: Beromünster: "Schweizerischer Landessender Beromünster". – **Sottens:** "Sottens – émetteur national suisse". – **Monte Ceneri:** "Radio della Svizzera italiana – Stazione nazionale di Monte Ceneri".
INT.-SIG.: Beromünster: Radio Basel: "Z'Basel a mym Rhy".



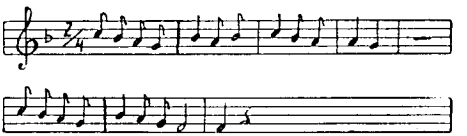
Radio Bern: "D'Zyt isch do".



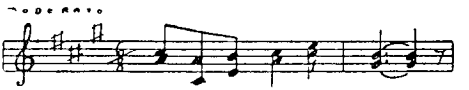
Radio Zürich: "Chum Bueb und lueg dis Ländli a".



Radio Genève: "Quelle fatale journée" chanson de l'Escalade.



Sottens: Radio Lausanne: "Voici la mi-été".



Monte Ceneri: "Campane delle Chiesa di Pazzalino".

V.: Any messages from our listeners and viewers are most welcome. – **F.PL.:** A network of 63 FM tr. under construction (28 rel. national tr., 35 second prgr.) – **PUB.:** Weekly: "Schweizer Radiozeitung, Radio und Fernsehen". "Radio – je vois tout". "Radioprogramma" – Prgr. sched. for Shortwave Sce. twice a year.

FOREIGN SERVICE

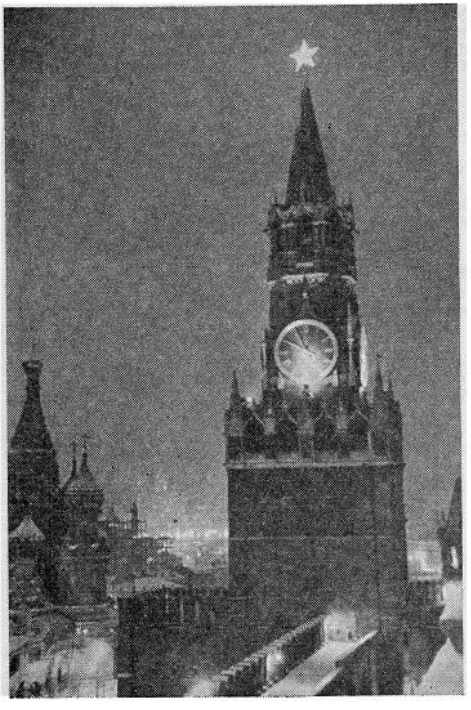
Schwarzenburg: 100 kW d.

HER3	6165 kc/s	48.66 m	HER6	15305 kc/s	19.60 m
HEI3	7210 –	41.61 –	HEU6	15315 –	19.59 –
HER4	9535 –	31.46 –	HER7	17784 –	16.87 –
HEU3	9665 –	31.04 –	HER8	21520 –	13.94 –
HER5	11865 –	25.28 –			

EUROPEAN SERVICE:
German, French, Italian on 6165/9535 kc/s W.: 05.15–07.00, 10.00–13.00, 15.00–22.40. Sat. 05.15–07.00, 10.00–22.40. Sun. 06.10–22.40. N.: (G=German. F=French) 05.15(G), 06.00(G), 06.15(F), 11.30(G), 11.45(F), 18.15(F), 18.30(G), 21.30(F), 22.20(G). **Esperanto:** Tues., Thurs. 11.55. Mo., Fri. 17.30.
European Sce. rebroadcast to Africa: 05.15 (Sun. 06.10)–07.00 on 17784, 10.00–12.30 on 21520, 16.30–22.40 on 17784.

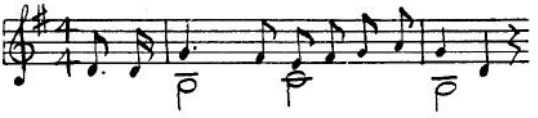
OVERSEAS SERVICE:

English	Beamed Areas	kc/s
01.30–03.15	No.America I	11865/9535/6165
04.15–05.00	No.America II	11865/9535/6165
07.15–09.45	E.Au., N.Z., W.Au., F.East	21520/17784/11865
12.45–14.30	S.E.Asia, Japan	21520/17784/15305
14.45–16.30	India, Pakistan	15305/11865



Moscow, Kreml

MOSCOW CALLING



What USSR broadcasts about

The Soviet Union covers a sixth of the globe. In order to travel through the country from west to east—from the Polish frontier to the Pacific coast—a passenger in an express train requires fourteen days. When the rising sun gilds the summit of Kljutjevskij in Kamtjatka, the inhabitants in the western areas are just going to bed. From the cold pole in Jakutsk, where the thermometer often registers 70 degrees below freezing point, to the hot desert of Karakum, where the temperature reaches 60 degrees (C), one meets the most various climatic conditions. The fauna and flora of the country are extraordinarily diverse. Its natural resources are unlimited.

The population of USSR exceeds 200 millions. There are Russians, Ukrainians, White Russians, Lithuanians, Gruzes and Moldavians—people of over sixty nationalities.

Moscow broadcasting station tells about life in this country, and transmits in 35 different languages.

The programmes comprise reports on sporting events, concerts, literary programmes. Listeners are informed about science and techniques, new books, theatre and film shows. Moscow broadcasting station also comments on the most important international events. There are special programmes for women, for children and for young people. In these programmes are given answers to letters from listeners and the records people have asked for; information is given concerning the life of Soviet Russian women, and about students and school children.

Foreign guests are broadcast over the Moscow station—political personalities from abroad, representatives of business circles, scientists, artists, people of different religions, workers, and peasants visiting the Soviet Union as tourists or as members of various delegations.

Moscow always replies to its listeners by radio and letter, sending them various souvenirs and prizes for participating in the competitions of the Moscow station.

LISTEN IN TO MOSCOW!

English	Beamed Areas	kc/s
14.45–16.30	So.Africa	17784
16.45–18.30	Middle East	15305/11865
18.45–19.30	U.K., Ireland	9665/7210

Prgrs. in all transmissions:
News & commentaries at beginning of each tr. – **Folk music:** D. – **On the Spot:** Actuality prgr. Mo. – **Jazz Panorama:** The best in Jazz around the World: Wed. – **Swiss Composers and Chamber Music:** Tues. – **Youth Magazine:** Sun. – **A penny a song:** Request prgr. Sat. – **Light classical music:** Tues. – **Classical music:** Sun., Thurs. – **Around and about in Switzerland:** Album feature: Thurs. – **Dance with Lance:** Swiss country music: Fri. – **Rendez-vous in Lugano:** Sat. – **Symphony hour:** Presenting leading Swiss orchestras: Thurs. – **DX-programme:** Every first Fri. of each month in each transmission. – **Sunspot Predictions** (after the Home News): 4th/5th of each month. – **For Swiss Abroad:** In French (Mo.), Italian (Wed.), German (Fri.). – **Arabic:** Every Sat. in our Middle East tr. starting at 18.15 we broadcast a prgr. in Arabic prepared by the International Committee of the Red Cross.

Spanish:

21.00–22.30	Spain	11865/9665
23.15–00.45	Latin-America I	9535/11865/15315
03.30 04.00	Latin-America II	9535/11865

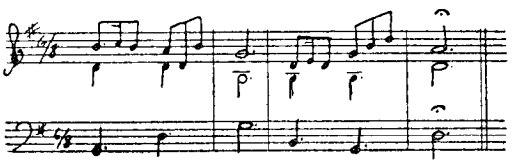
News and commentaries (Noticias y comentarios): D. – **Cultural talk** (Vida cultural): Tues. – **Actuality** (Reflejos de la semana): Thurs. – **Listeners' questions** (Consultorio radiofónico): Sun. – **Life in Switzerland** (La Vida en Suiza): Sun. – **Music:** Folk music (música popular): D. – **Classical music** (música sinfónica): Thurs., Sun. – **Swiss Composers** (Compositores suizos): Thurs. – **Light music** (Música y fantasia, cita con Cedric Dumont): Tues., Sun. – **Request Prgr.** (Bailables): Sat.

Portuguese:

20.45–21.15	Portugal	11865/9665
23.00–23.30	Brazil	9535/11865/15315

News and commentaries (Noticias, comentários): D. – **Actuality** (Coisas da Suiça): Wed. – **Folk music** (Música popular): D. exc. Sat., Wed. **Request Prgr.** (Matando saudades): Sat.

ANN.: E.: "This is Switzerland Calling". **G.:** "Hier spricht die Schweiz". **F.:** "Ici la Suisse". **I.:** "Qui è la Svizzera". **Sp.:** "Habla Súiza". **P.:** "Aqui Suiça".
INT.-SIG.: "Luegit vo Berg und Tal".

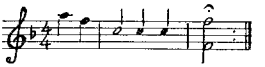


V. We are happy to receive letters and reception reports, which are all replied to or acknowledged by QSL-card and letter. R.p. welcome if airmail reply is required. – **PUB.:** S.w. sched.: twice a year (autumn, spring).

UNITED NATIONS RADIO BROADCASTING FROM GENEVA

ADDR.: Radio des Nations Unies, Palais des Nations, Genève. – **L.P.:** Dir. Inf.: W. Gibson Parker. Deputy Dir. Inf.: Paul Jankowski. Chief, R. Section: Roger Minne.
FOREIGN SCE.: 9520 kc/s 31.51 m 25 kW: Mo.–Fri. 15.45–16.10 in Russian to East Europe.
News, Commentary, features prepared in French and broadcast by Sottens (Switzerland), RTF (Paris) and INR (Brussels) several times a week, non-scheduled.

ANN.: E.: "This is the United Nations Radio in Geneva". – **F.:** "Ici les Nations Unies à Genève". – **INT.-SIG.:**



V. by QSL-card or letter. – **PUB.:** Prgr.sched. free on request.

BROADCASTS FROM INTERNATIONAL COMMITTEE OF THE RED CROSS, GENEVA

L.P.: Chief of Broadc.: Georges Kuhne. – **In Peace Time:** ICRC organizes occasional test transmissions on the frequency of 7210 kc/s 41.61 m. – **In Times of Crisis:** ICRC broadcasts on the same Wavelength programmes containing information regarding missing persons; for this purpose it has the use of other suitable frequencies of the Swiss Broadcasting Services.

★ U.S.S.R. ★

L.T.: See time table. – **L.:** Russian. – **Rcvrs.:** 8.205.866.
ADDR.: The Soviet Radio, 2 Malyi Poutinskovskii pereulok, Moscow K-6. – **Cable:** Moskva Radio.
L.P.: Pres. of the Broadc. Committee: D. I. Tjesnokov. Vicepres.: B. P. Stephanov. Vicepres., Head of TV: N. P. Tjaplygin. Vicepres., Chief of Broadc.: Z. U. Sokolov. Dir. Central TV-Studio: G. A. Ivanov. Chief Eng.: P. S. Mozjarovskij. Dir. International Rel. Dept.: V. V. Jevgenjev.

STATIONS

LONG & MEDIUM WAVES:

	kc/s	m	kW	H. of tr.
Moscow RSFSR	151	1987	500	See 1. prgr.
Petropavlovsk-Kamchatskij RSFSR	155	1935		22.30–14.00, 19.30–21.00
Tashkent, Uzbek	164	1829	50	00.00–10.00, 11.40–20.05
Moscow I RSFSR	173	1734	500	See 1. prgr.
Chita RSFSR	173	1734	20	22.00–00.00, 04.00–17.30
Alma Ata	182	1648	10	00.20–09.00, 11.30–20.00
Tbilisi, Georgia	191	1571		03.00–10.20, 14.00–21.05
Irkutsk	200	1500	20	22.30–02.00, 04.00–17.30
Moscow II	200	1500	100	See 2. prgr.
Kiev I-Ukrainian SSR	209	1435	150	03.00–10.00, 13.15–22.00
Baku, Azerbaijan	218	1376	35	01.30–10.15, 13.00–21.00
Krasnoyarsk RSFSR	218	1376	50	23.00–08.00, 09.00–17.00
Leningrad I RSFSR	236	1271	100	See 1. prgr., R. Moscow
Vladivostok	245	1224	100	01.00–08.00,
Stalinabad Tajik SSR	254	1181	2	01.00–09.00, 10.00–21.00
Yakutsk RSFSR	263	1141	10	22.00–00.00, 02.00–14.00
Moscow II RSFSR	263	1141	150	See 1. prgr., R. Moscow
Novosibirsk RSFSR	272	1103	100	23.00–07.00, 09.00–19.00
Minsk-Wh. Russian SSR	281	1068	100	03.00–12.00, 13.00–22.00
Ulan Ude RSFSR	281	1068	10	22.30–01.30, 03.30–16.30
Moscow II	340	882.4	100	See 2. prgr.
Moscow II RSFSR	365	820	20	See 2. prgr.
Ashkhabad, Turkmen	375	800	10	01.00–11.00, 13.00–21.00
Moscow II RSFSR	385	779	20	See 2. prgr.
Kharkov	385	779	50	
Tashkent I	400	750	50	00.00–10.00, 11.40–20.05
Minsk White-Russian SSR	400	750	50	
Odessa. Ukrain SSR	548	547.4	100	
Moscow II	548	547.4	100	See 2. prgr.
Stalingrad RSFSR	557	539	10	04.00–12.00, 14.00–16.30
Riga-Latvian SSR	575	521.7	100	03.00–11.00, 13.00–20.45
Ordzhonikidze	593	506		
Frunze, Kirghiz	611	491	2.5	00.30–08.00, 12.00–19.00
Petrozavodsk, Kar. ASSR	611	491	100	03.00–10.00, 13.00–22.00
Krasnodar RSFSR	611	491	20	

SUMMER SUPPLEMENT to the WRH.

Organizations. experts, listeners, clubs and so forth, which use WRH in connexion with their work or hobby, have asked us to publish in june/july a supplement to WRH for the purpose of: correcting the contents of WRH, to publish summer schedules of the most important short wave stations all over the world, and to bring the medium and short wave tables up to date.
If we receive enough orders we have planned to publish a supplement of this kind in approx. June 1959. In order to be able to estimate the size of the circulation, we ask you to be so good as to inform us as early as possible, whether you desire to reserve one or more copies. The price, including postage, will be: Dan. Kr. 4.00, £ 0/4/6, $ 0.70, DM 2.50, Sw. Kr. 3.00.

Keep your World Radio Handbook up to date
by help of the WORLD RADIO BULLETIN which contains the latest news from broadcasting stations: New stations, changes of frequencies, hours of transmission, powers etc. The WR-bulletin is published fortnightly and the rates are:
Airmal: Annually: Da. Kr. 38.-, £ 2, $ 5,65, DM 24.—.
Quarterly: Da. Kr. 10.—, £ 0/11/—, $ 1.50, DM 6.50.
Ordinary mail: Annually: Da. Kr. 22.—, £ 1/6/0, $ 3.50, DM 15.—.
Quarterly: Da. Kr. 6.—, £ 0/7/0, $ 1.25, DM 4.25.

Simferopol, Ukrain. SSR	647	463.7	100	04.00–12.00, 13.00–21.00
Murmansk RSFSR	656	457.3	150	03.00–11.00, 13.00–22.00
Vilnius I-Lith. SSR	665	451.1	100	04.00–21.00
Tjernovtsy Ukrain SSR	674	445.1	50	
Ufa	692	433.5	100	
Moscow II RSFSR	692	433.5	20	See prgr. 2.
Stalino-Ukrainian SSR	710	422.5	100	03.00–11.00, 13.00–21.05
Tallinn, Estonia	710	422.5	10	
Chelyabinsk RSFSR	737	407.1	10	01.00–03.00, 04.00–07.00 09.00–11.00, 12.45–14.00 15.00–21.00
Moscow II	737	407.1	20	See 2. prgr.
Rostov Don RSFSR	764	392.7	10	
Kiev II-Ukrainian SSR	782	383.6	100	04.20–08.00, 10.00–12.00 13.00–16.30
Leningrad II RSFSR	800	375	100	04.00–09.20, 10.00–17.00
Kuibyshev	809	371		
Gorkij	827	363	10	04.00–12.00, 13.00–22.00
Moscow RSFSR	827	363	20	See 2. prgr.
Kharkov, Ukraine	836	358.9	20	
Kazan RSFSR	845	355	10	14.30–21.00
Erevan, Armenia	863	347.6		02.30–11.00, 13.00–14.45
Moscow III RSFSR	872	344	150	See 3. prgr.
Stavropol RSFSR	881	340		03.00–12.00, 13.00–21.05
Uzhgorod-Ukrain. SSR	890	337.1	20	02.30–12.00, 13.15–16.00
Makhachkala RSFSR	917	327.2	10	05.00–11.00, 13.00–21.00
Ivanovo RSFSR	926	324	10	
Lvov-Ukrainian SSR	935	320.9	100	03.00–12.00, 13.00–18.00
Voronezh RSFSR	944	317.8	20	
Smolensk RSFSR	971	309	20	
Odessa, Ukraine	971	309	50	
Yuzhno-Sakhalinsk	973	308	1	
Kishinjov, Moldavian SSR	998	300.6	100	03.00–12.00, 13.00–18.00
Odessa, Ukrain. SSR	1016	295	20	
Tallinn I-Estonian SSR	1034	290.1	100	03.00–12.00, 13.00–20.45
Tbilisi, Georgia	1043	287		03.00–12.00, 14.00–21.00
Dnjepropetrovsk-Ukrainian SSR	1070	280.4	20	03.00–12.00, 13.00–21.00
Mogilev-Wh. Russ. SSR	1106	271.2	100	
Vilnius II-Lith. SSR	1106	271.2	100	15.00–19.30
Leningrad III RSFSR	1124	266.9	20	03.00–12.00, 13.00–22.00
Kaliningrad RSFSR	1142	262.7	20	03.00–12.00, 13.00–22.00
Kiev-Ukrainian SSR	1169	256.6	150	
Kursk RSFSR	1214	247.1	20	
Tallinn II-Eston. SSR	1214	247.1	5	
Tiraspol-Moldavian SSR	1241	241.7	20	
Kharkov II-Ukrain. SSR	1322	226.9	100	
Kuldiga-Latvian SSR	1349	222.4	20	
Riga II-Latvian SSR	1349	222.4	20	
Valmiera-Latvian SSR	1349	222.4	20	
Kaunas-Lithuan. SSR	1385	216.6	150	
Tartu-Estonian SSR	1403	213.8	20	
Tjernigov-Ukrain. SSR	1421	211.1	5	
Gomel-Ukrainian SSR	1493	200.9	5	
Vinnitsa-Ukrainian SSR	1546	194.0	5	
Baranovitji-Whiterussian SSR	1554	193.1	5	

FM: Moscow I 4.27 m – Moscow II 4.45 m

SHORT WAVES:

R. Moscow (Frequencies reported):

4200(71.43)	7260(41.32)	9593(31.27)	11630(25.8)	11875(25.26)
4940(60.73)	7270(41.27)	9600(31.25)	11650(25.75)	11880(25.25)
5230(57.36)	7280(41.21)	9610(31.22)	11660(25.73)	11890(25.23)
5260(57.03)	7290(41.15)	9625(31.17)	11690(25.66)	11900(25.21)
5270(56.93)	7310(41.04)	9630(31.15)	11700(25.64)	11905(25.2)
5905(50.8)	7340(40.87)	9650(31.09)	11705(25.63)	11910(25.19)
5940(50.51)	7360(40.76)	9655(31.07)	11715(25.61)	11920(25.17)
6000(50.0)	7375(40.68)	9660(31.06)	11720(25.6)	11925(25.16)
6020(49.83)	7385(40.62)	9665(31.04)	11730(25.58)	11930(25.15)
6035(49.71)	7390(40.6)	9680(30.99)	11735(25.56)	11940(25.13)
6080(49.34)	7400(40.54)	9685(30.98)	11740(25.55)	11950(25.1)
6365(47.13)	7440(40.32)	9700(30.93)	11750(25.53)	11960(25.08)
6405(46.84)	7470(40.16)	9710(30.9)	11755(25.52)	11985(25.03)
7100(42.25)	7850(38.22)	9720(30.86)	11760(25.51)	12000(25.00)
7115(42.16)	9330(32.15)	9735(30.82)	11770(25.49)	12020(24.94)
7140(42.02)	9450(31.75)	9750(30.77)	11785(25.46)	12075(24.84)
7145(41.99)	9470(31.68)	9760(30.74)	11790(25.45)	15045(19.94)
7155(41.93)	9490(31.61)	9760(30.74)	11800(25.42)	15065(19.91)
7175(41.81)	9500(31.58)	9775(30.69)	11805(25.41)	15070(19.91)
7185(41.75)	9510(31.55)	9790(30.64)	11825(25.37)	15080(19.89)
7200(41.67)	9520(31.51)	9810(30.58)	11840(25.34)	15090(19.88)
7215(41.58)	9535(31.46)	9830(30.52)	11845(25.33)	15100(19.87)
7220(41.55)	9555(31.4)	9850(30.46)	11850(25.32)	15115(19.85)
7230(41.49)	9570(31.35)	9903(30.29)	11860(25.3)	15118(19.84)
7245(41.41)	9585(31.3)	11575(25.92)	11865(25.28)	15130(19.83)
15141(19.82)	15255(19.67)	15370 (19.52)	17710 (16.94)	17850 (16.81)
15150(19.8)	15260(19.66)	15375 (19.51)	17715 (16.93)	17855 (16.81)
15155(19.8)	15270(19.65)	15380 (19.51)	17740 (16.91)	17865 (16.79)
15170(19.78)	15275(19.64)	15390 (19.49)	17755 (16.91)	17875 (16.78)
15180(19.76)	15280(19.63)	15400 (19.48)	17765 (16.89)	17880 (16.78)
15195(19.74)	15290(19.62)	15410 (19.47)	17770 (16.88)	17895 (16.76)
15205(19.73)	15295(19.61)	15425 (19.45)	17780 (16.87)	17900 (16.76)
15210(19.72)	15300(19.61)	15440 (19.43)	17790 (16.86)	17910 (16.75)
15225(19.7)	15305(19.6)	15457 (19.41)	17800 (16.85)	17945 (16.72)
15230(19.7)	15315(19.59)	15470 (19.39)	17810 (16.84)	20088 (14.93)
15235(19.69)	15320(19.58)	16370 (18.33)	17815 (16.84)	21610 (13.88)
15240(19.69)	15335(19.56)	17555 (17.09)	17825 (16.83)	21670 (13.84)
15245(19.68)	15355(19.54)	17595 (17.05)	17840 (16.82)	21900 (13.7)

Alma Ata: 4625(64.86) 4955(60.54) 4972(60.34) 5260(57.03) 5762(52.07) 8250(36.36) 9250(32.43) 9340(32.12) 9380(31.98) 9640(31.12) **Ashkhabad:** 4235(70.84) 6353(47.22) 7330(40.93) **Baku:** 3187(94.14) 4958 (60.51) 9840(30.49) **Blagoveshchensk:** 4956(60.53) **Chimkent, Kazakh:** 4310(69.61) **Erevan:** 5740(52.26) 6075(49.38) 7150 (41.96) 7270(41.27) **Frunze:** 4009(74.83) **Gorkij:** 4559(65.80) **Ivanovo:** 4997(60.04) **Kaunas:** 6135(48.90) 15320(19.59) **Khabarovsk:** 4273(70.21) 5940(50.51) 6020 (49.83) 6115(49.06) 7150(41.96) 7210(41.61) 9380(31.98) 9750(30.77) 11690(25.66) 11840(25.34) 15230(19.70) 17865(16.79) **Kiev:** 4940(60.73) 6020(49.83) 9665(31.04) 11700(25.64) 11740(25.55) 11785(25.46) 11820(25.38) 11860(25.30) 11890(25.23) 15305(19.60) **Komsomolsk:** 6020(49.83) 7280((41.21) 9660(31.06) 9725(30.85) 11755(25.52) 11850 (25.32) 11900(25.21) 15195(19.74) 15215(19.72) 15235(19.69) 15335 (19.56) 15457(19.41) 17745(16.91) 17865(16.79) **Krasnoyarsk:** 5290 (56.71) **Leningrad:** 9600(31.25) 9790(30.64) 11630(25.79) 11885(25.24) **Lvov:** 9790(30.64) **Magadan:** 4996(60.05) 7270(41.27) 9500(31.58) 11820 (25.38) **Minsk:** 6820(43.99) **Murmansk:** 7650(39.22) **Nicolayevsk:** 5230(57.36) **Novosibirsk:** 5225(57.42) 15422(19.46) **Petropavlovsk:** 5050(59.41) 7330(40.93) 9180(32.68) 11730(25.58) 11755(25.52) 11850 (25.32) 11900(25.21) 15050(19.93) 15110(19.85) 15140(19.82) 15195 (19.74) 15245(19.68) 15252(19.67) **Petrozavodsk:** 5065(59.23) 6055 (49.55) **Stalinabad:** 4635(64.72) 7330(40.93) 9555(31.40) **Tallinn:** 6085(49.30) **Tashkent:** 6730(44.58) 6825(43.96) 7100(42.25) 11690 (25.66) **Tbilisi:** 4540(66.08) 5040(59.52) 6050(49.59) **Ufa:** 4486(66.88) **Ulan Ude:** 6135(48.90) **Vladivostok:** 5015(59.82) **Yakutsk:** 5979 (50.18) **Yuzhno Sakhalinsk:** 4635(64.72).

HOME SERVICE

RADIO MOSCOW:

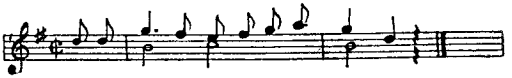
First prgr.: On 151, 173, 236, 263: D. 03.00–22.00 (Sat., Sun. 23.00). – On 400 kc/s: D. 12.45–21.00. – In 16 m.b.: D. 04.20–14.00 – In 19 m.b.: D. 03.45–15.30 – In 21 m.b.: D. 05.45–14.05 – In 25 m.b.: D. 04.20–15.30 – In 31 m.b.: D. 09.00–11.45, 12,45–22.00 – In 41 m.b.: D. 14.30–22.00 – In 49 m.b.: D. 16.00–22.00 (Sat. 23.00) – In 51 m.b.: D. 15.30–22.00. In 74 m.b.: D. 04.30–22.00. **FM I: W.:** 03.00–10.15, 11.00–15.30, 16.00–22.00. Sun. 03.00–07.30, 08.30–23.00. – **N.: Local:** 03.05, 05.00, 06.00, 11.00, 13.00, 14.00, 15.00, 16.00, 17.00, 19.30, 20.50. **Foreign:** 10.05. – **Daily prgr. preview:** 03.20, 05.15, 10.00, 16.18.

Second prgr.: On 200 kc/s: W. 07.00–12.20. Sun. 05.45–12.30. – On 340, 827 kc/s: D. 16.20–22.00 – On 365, 692 kc/s: 16.20–21.00 – On 385 kc/s: D. 13.00–22.00. – On 548 kc/s: W. 07.00–13.00. Sun. 05.45–15.30. – On 737 kc/s: W. 16.00–21.00. Sun. 05.45–21.00. – On 809 kc/s: W. 07.00–22.00. Sun. 05.45–22.00. – On 971 kc/s: D. 12.20–15.00. – In 25 m.b.: W. 12.20–15.30. Sun. 05.45–15.00 – In 49 m.b.: W. 07.45–15.00. Sun. 15.00–20.00. In 56 m.b.: W. 15.00–20.00. Sun. 05.45–21.00. **FM II:** Mo.–Fri. 07.00–15.00, 16.00–22.00. Sat. 07.00–13.00, 15.00–22.00. Sun. 05.45–08.30, 15.30–22.00.

Third prgr.: On 872, 548 kc/s and in 42, 49, 55 m.b.: D. 16.20 (Sun. 16.00)–21.00.

ANN.: "Govorit Moskva" – "This is Radio Moscow".

INT.-SIG.: For Home and Foreign Service:



PUB.: "Radioprogrammy" (weekly).

FOREIGN SERVICE:

See last minute corrections on last page.

R. BAKU: On 9840 kc/s: **Azerbaijani:** 04.00-04.15, 13.00-13.45. **Persian:**

REGIONAL STATIONS:

04.30–04.45, 12.00–13.00, 15.00–15.30. **Turkish:** 05.30–05.45, 11.00–11.30, 15.45–16.45.

R. KIEV: D. Prgr.: In Ukrainian: 16.00–17.00 in 41 m.b. for Europe, 01.30–02.30, 04.00–05.00 (repeat) in 31, 41 m.b. for Canada.

R. KHABAROVSK: On 7150/9380 kc/s: 19.30–10.45.

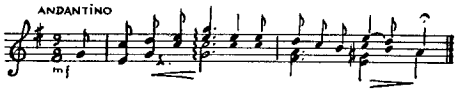
R. MAGADAN: On 7270/9500 kc/s: 18.20–13.00.

R. TALLINN: Finnish: W. 15.00–15.30 on 710 kc/s, 16.00–16.30 on 1034 kc/s. Sun. 08.00–09.00 on 1034 kc/s.

R. TASHKENT:

ADDR.: Radio Tashkent, Tashkent, Uzbek Soviet Socialist Republic, USSR.

L.P.: Chief of R. Inf. Centre of the Ministry of Culture of the Ubzek Republic: U.Y. Ibraghimov.
D. Prgr.: On 164, 400, 6825 kc/s in **Uzbek, Tajik & Russian.** – **N. in Uzbek:** 00.35, 01.45, 11.40 (exc. Sat., Sun.), 13.00 – **N. in Russian:** 13.15 – **N. in Tajik:** 13.50.
On 7100, 11690 kc/s: **English** to India, Pakistan: 12.30–13.00, 16.30–17.00. – **Urdu** to Pakistan: 13.00–14.00.– **Uighur** to Singkiang: 14.15–15.15. – **Persian** to Iran, Afghanistan: 15.30–16.00, 17.30–18.00.
ANN.: English: "This is Radio Tashkent" – **V. by letter.**
R. VILNIUS:
ADDR.: Lithuanian Radio, Vilnius, ul. Karnarskogo 49, Lithuanian SSR, USSR – **L.P.:** Dir.: Ionas-Iono Januitis. – **D. Prgr.:** Vilnius I: 04.00–24.00. Vilnius II: 15.00–19.30. – **N.:** Prgr. I: 04.00, 06.00, 07.00, 10.00, 14.00, 18.00, 20.50. Prgr. II: 15.00. – **Wrp.:** Prgr. I.: 04.15, 05.15, 10.00, 16.20, 18.30. Prgr. II: 15.20 – **V.** by letter – **F.PL.:** 3 FM-st.



★ VATICAN STATE ★

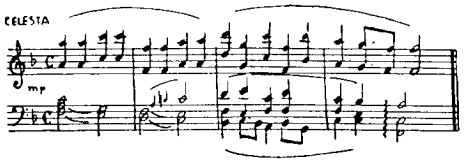
L.T.: GMT + 1 h. – **L.:** see below.
ADDR.: Vatican Radio, Vatican City. – **Cable:** Vatican Radio. – **L.P.:** Dir. Gen.: Rev. Prof. Antonio Stefanizzi, S. J. Dir. Tec.: Dott. Ing. Tullio Gorio.
STATIONS:
Medium Waves: HV2 773 kc/s 388.1 m 2 kW – HV100 1529 kc/s 196.2 m 100 kW – HV5 1484 kc/s 202.2 m 5 kW.
Short Waves: 5/25/50/100 kW.

kc/s	m	kc/s	m	kc/s	m	kc/s	m
3955	75.85	7270	41.27	11740	25.55	17735	16.92
5968	50.27	7280	41.21	11940	25.13	17840	16.82
6005	49.96	9550	31.41	15120	19.84	21515	13.94
6030	49.75	9646	31.10	15290	19.62	21740	13.80
6190	48.47	9660	31.06	15385	19.50	25740	11.66
7250	41.38	11685	25.67	17720	16.93	25780	11.64

The wavelengths are subject to change with seasonal variations, or to avoid interference.
FM: mc/s 93.30, 96.30; kW 0.5.
PROGRAM SCHEDULE: Oct./April

		kc/s
Abyssinian:	16.45 Mo., Wed., Fri.	15120, 17840, 21515, 1529
Albanian:	20.30 Tues., Thur., Sat.	7280, 1529
Arabic:	16.45 Sun., Tues., Thur., Sat.	11685, 15120, 17840, 1529
Bulgarian:	17.30 Tues., Thur., Sat. / 11.00 Sun.	9646, 11685, 15120, 1529
Chinese:	10.30 Tues., Thur., Sat.	17840, 21515
Croat:	17.45 Sun., Mo., Tues., Wed., Fri.	6190, 7280, 9646, 1529
Czech:	12.30 D.	7280, 9646, 11685, 1529
	19.30 D.	6190, 7280, 9646, 1529
Dutch:	21.15 Sun., Mo., Wed., Fri.	7280, 9646, 11685, 1529
English:	15.00, 18.15 D.	9646, 11685, 15120, 1529
	16.00 Mo., Wed., Sat.	15120, 11685 (Ind., Pak., Ceylon)
	10.30 Mo., Wed., Fri.	17735, 21740 (C.So Af.).
French:	11.45, 14.30, 19.15 D.	7280, 9646, 11685, 1529
	11.00 Mo., Wed., Fri.	17735, 21740 (Equ. Af., B. Congo)
German:	12.45, 14.45, 19.45 D.	9646, 11685, 15120, 1529 / 7280, 9646, 11685, 1529
Hungarian:	13.00 D.	7280, 9646, 11685, 1529
	21.00 D.	6190, 7280, 9646, 1529
Italian:	13.30 D.	6190, 7280, 9646, 11685, 1529, 782
	18.30 D.	6190, 7280, 11685, 1529, 782
	16.00 Fri.	6190, 7280, 9646, 1529, 782
Latin:	11.30, 16.30 Tues., Thur., Sat.	7280, 9646, 11685, 15120 15,29
	21.15 Tues., Thur., Sat. / 20.00 D. (H. Rosary)	6190, 7280, 9646, 11685, 1529
Latvian:	17.30 Mo., Fri.	9646, 11685, 15120, 1529
Lithuanian:	07.30 Sun.	9646, 11685, 15120
	17.15 D.	9646, 11685, 15120, 1529
Polish:	12.15, 15.15 D.,	9646, 11685, 15120, 1529
	19.00 D.	7280, 9646, 11685, 1529
Portuguese:	15.30, 20.30 D.	9646, 11685, 15120, 1529
	11.00 Tues., Thur., Sat.	17735, 21740 (Angola-Mozamb.)
	23.00 D.	11685, 17840 (for Brazil)
Roumanian:	17.30 Sun., Wed., Sat.	9646, 11685, 15120, 1529
Russian:	18.00 D.	9646, 11685, 15120, 1529
Slovak:	12.00 D.	7280, 9646, 11685, 1529
	20.15 D.	6190, 7280, 9646, 1529
Slovene:	17.45 Thur., Sat.	6190, 7280, 9646, 1529
	20.30 Mo., Fri.	7280, 1529
	10.45 Sun.	9646, 11685, 1529
Spanish:	14.15 D.	9646, 11685, 15120, 1529
	20.45 D.	7280, 9646, 11685, 1529
	23.30 D.	17840, 21.515 (for So.Am.)
	00.00 D.	11685, 15120 (for So.Am.)
	00.30 D.	9646, 11685 (for C. Am.)
Swedish, Danish, Norwegian: 20.30 Wed.		9646, 11685, 1529
Ukrainian:	17.00 Sun., Tues., Thurs., Fri.	9646, 11685, 15120, 1529
White Ruthen: 17.00 Mo., Wed., Sat.		9646, 11685, 15120, 1529
Musical concert: 16.00 Thurs.		6190, 7280, 9646, 11685, 1529
Sun.:	08.30 Mass in Latin Rite / Music during the Mass. / Gospel homily for 15 min. after Mass, alternatively in different languages	9646, 11865, 15120
Oriental Liturgy: 09.30 (Homily in respective languages)		9646, 11685, 15120, 1529

OPENING SIGN.: The bells of St. Peter's.
ANN.: "Laudetur Jesus Christus. Praised be Jesus Christ. This is Vatican Radio".
INT.-SIG.: Carillon Melody "Christus Vincit" executed on the celeste with orchestral accompaniment. – **V.** by QSL-card.



★ YUGOSLAVIA ★

L.T.: GMT+1 h. – **L.: Serbian:** Belgrade, Nis, Novi Sad, Pristina; Sljeme. – **Croatian:** Zagreb, Split, Rijeka, Osijek, Dubrovnik. – **Serbo-Croate** (Bosnia-Herzegovina): Sarajevo. – **Serbo-Croat** (Montenegro): Titograd. – **Slovenian:** Ljubljana, Maribor, Capodistria, Celje. – **Macedonian:** Skoplje, Bitola. – **Rcvrs.:** 890.361.
ADDR.: Radiodiffusion Yougoslave, Knez Mihajlova 19, Beograd.
L.P.: Yougoslav Radiodiffusion: Pres. Adm. Committee: M. Tepavac. Vice-pres.: Mrs. V. Malinska. Vice-pres.: F. Perovsek. Secr. Gen.: Dr. I. Pustisek. Head. For. Rel.: Mrs. Olivera Vojvodić. Pres. Prgr. Commission: Dr. E. Tomc. Pres. Tech. Commission: Ing. R. Galić. Pres. Prgr. Commission for TV: D. Štrbac. – **Radio Beograd:** Dir. Gen.: M. Tepavac. Dir. Prgr.: V. Pešić. – **Radio Zagreb:** Dir. Gen.: I. Sibl. Dir. Prgr.: J. Ugrcić. Dir. Tec.: Vojko TRS. – **Radio Ljubljana:** Dir. Gen.: F. Perovsek. Dir. Prgr.: Dr. E. Tomc. – **Radio Skoplje:** Dir. Mrs. Veselina Malinska. – **Radio Sarajevo:** Dir. Mrs. Danica Kurtović. – **Radio Titograd:** Dir. B. Nilević. – **Radio Novi Sad:** Dir. N. Farkas. – **Radio Pristina:** Dir. I. Mulja.

HOME SERVICE

MEDIUM WAVES:
Main Stations:

	kc/s	m	kW		kc/s	m	kW
Sarajevo	611	490.9	100	Ljubljana I	917	327.1	135
Beograd	683	439	150	Zagreb	1133	264.7	135
				Rijeka I	1133	264.7	15
Skoplje	809	370.8	135	Novi Sad	1268	236.6	100
Titograd	881	340.5	20	Priština	1412	212.4	20
Local Stations:							
Niš	917	327.1	10	Celje	1484	202.2	0.5
Koper	1169	256.6	6	Dubrovnik	1484	202.2	2
Maribor	1412	212.4	5	Ljubljana II	1484	202.2	2
Split	1412	212.4	50	Osijek	1484	202.2	2
Bitola	1484	202.2	0.5	Rijeka II	1484	202.2	2
				Sljeme	1484	202.2	2

SHORT WAVES:

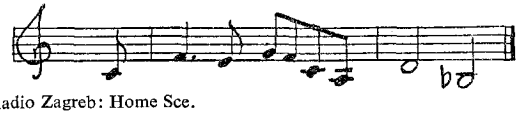
	kc/s	m	kW		kc/s	m	kW
Beograd	6100	49.18	100	Beograd	7200	41.67	10
Beograd	6150	48.78	100	Beograd	9505	31.56	10
				Beograd	15240	19.68	10d

FM:	mc/s	kW		mc/s	kW
Beograd	87.9	0.25	Ljubljana I	94.1	1.5
Pohorje	88.5	0.35	Zagreb	94.9	1.5
Kum	90.1	1.5	Beograd	95.4	0.25
Novi Sad	90.4	0.25	Koper II	97.7	0.35
Ljubljana II	90.9	0.25	Psunj	98.1	1.5
Nanos I	91.7	0.35	Split	98.1	0.25

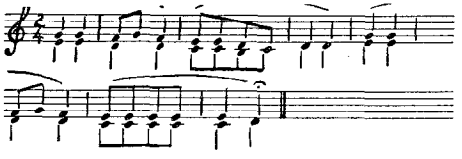
R. Beograd: W: 04.00–23.00. Sun. 04.30–23.00. – **N., Commentary:** 04.00, 07.00, 09.00, 11.00, 12.00, 13.00, 14.00, 15.00, 16.00, 17.00, 18.30, 21.00, 23.00. – **Wrp.:** 04.05, 06.30, 14.05, 21.05.
R. Zagreb: W.: 04.00–08.00, 12.00–23.00. Sun. 05.00–23.00. – **N., Commentary:** 04.00, 05.00, 06.00, 08.00, 12.00, 14.00, 16.00, 18.30, 21.00, 23.00. – **Wrp.:** 05.05, 06.05, 12.05, 14.05, 21.05.
R. Ljubljana: W.: 04.00–22.00. Sun. 05.00–22.00. – **N., Commentary:** 04.00, 05.00, 06.00, 07.00, 09.00, 12.00, 14.00, 16.00, 18.30, 21.00, 21.55. – **Wrp.:** 04.05.
R. Skoplje: W.: 04.25–07.30, 10.55–22.00. Sun. 04.25–22.00.
R. Sarajevo: W.: 05.00–07.30, 12.00–22.00. Sun. 05.00–22.00.
R. Titograd: W.: 04.30–06.30, 13.00–21.00. Sun. 05.00–21.00.
R. Novi Sad: W.: 04.00–23.00. Sun. 04.30–23.00.
R. Pristina: W.: 04.30–07.00, 11.00–22.05. Sun. 05.00–22.05.

FOREIGN SERVICE

Albanian: 16.30–17.00, 18.30–18.45 on 1412, 881 kc/s.
Arabic: 16.30–17.00 on 6100, 9505 kc/s.
Bulgarian: 18.00–18.30 on 6150, 7200 kc/s, 20.15–20.30 on 6100, 7200, 9505 kc/s.
Czech: 18.30–19.00 on 1268, 9505 kc/s, 20.30–20.45 on 6100, 7200, 9505 kc/s.
English: 12.30–13.00 on 6100, 9505, 15240 kc/s, 18.30–19.00 on 6150, 7200 kc/s.
French: 16.15–16.30 on 6100, 7200, 9505 kc/s, 19.30–19.45 on 6150, 7200 kc/s.
German: 17.30–18.00 on 6150, 7200 kc/s, 20.45–21.00 on 6100, 7200 kc/s.
Polish: 16.00–16.15 on 6100, 7200, 9505 kc/s, 19.45–20.15 on 6150, 7200 kc/s.
Russian: 17.00–17.30, 19.00–19.30 on 6150, 7200 kc/s.
Spanish: 21.30–22.00 on 1268, 6100, 7200 kc/s, 22.30–22.45 on 1268, 6100 kc/s.
ANN.: Home Service: "Here is Radio Belgrade, ...Zagreb, ...Ljubljana etc". – "Ovde Radio Belgrad, ...Zagreb, ...Ljubljana etc." – **Foreign Service: E.:** "This is Yugoslavia, Radio Belgrade calling". – **F.:** "Ici la Yougoslavie, Belgrade vous parle".
INT.-SIG.: Home and Foreign Sce.: The beginning of the "Internationale" (Radio Belgrade). – **V.** by QSL-card.



Radio Zagreb: Home Sce.



★ ALGERIA (French) ★

L.T.: GMT+1 h. – **L.:** French, Arabe, Kabyl. – **Rcvrs.:** 450.000.

RADIO ALGERIA (Go.)
ADDR.: 10 Rue Hoche, Alger. – **L.P.:** Dir. Reg., Dir. Tec.: M. Godin (temporary). Dir. Prgr.: M. Héral. Dir. Adm.: M. Chemineau. Dir. Inform.: M. Godiveau.
FRENCH NETWORK: W.: 05.30–07.30, 10.00–13.00, 16.00(Sat. 15.00)–22.15. Sun. 06.00–22.15.

	kc/s	m	kW		kc/s	m	kW
Alger II	980	306.1	200	Colomb Bishar	1169	256.6	1
Touggourt	1070	280	1	Bone (evening)	1484	202.2	0.2
Constantine I	1142	262.7	20	Bougie(f. 17.30)	1594	188.2	0.6
Les Trembles I	1142	262.7	20	Alger OC1	11710	25.62	50
				Alger OC1	11835	25.35	50

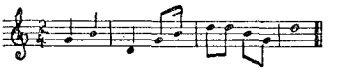
N.: 06.30, 12.00. – **Wrp.:** 12.00, 19.00. – "**La Voix de l'Algerie Francaise**": D. 19.30. – **Request Prgr.:** D. 06.45.
ARABIC NETWORK: W.: 05.30–07.15, 10.00–22.00 (10.00–11.00 rel. Kabyl). Sun. 05.30–22.00. – W. 13.00–16.00 rel. Arabic prgr. from Paris.

	kc/s	m	kW		kc/s	m	kW
Alger I	890	337.1	200	Constantine II	1304	230	20
Les Trembles II	1304	230.0	20	Alger OC2	9685	30.98	50

N.: 05.40, 12.00, 18.00, 19.00, 21.20.
KABYL NETWORK: W.: 05.30–06.30 (W. 10.00–11.00 rel. Kabyl prgr. from Paris), 11.00–13.00, 16.00–19.30. Sun.: 05.30–08.00, 11.00–14.00, 16.00–19.30.

	kc/s	m	kW		kc/s	m	kW
Alger III	1421	211.2	40	Bougie (even.)	1594	188	0.6
Michelet (even.)	1570	191.0	5	Alger OC3	6145	48.82	50

N.: 05.40, 12.00, 18.00, 19.25.
RELAY FROM PARIS: Alger OC4 7115 kc/s 42.16 m 50 kW: 18.00–23.00 in Arabic and Kabyl.
ANN.: F.: "Ici Radio Alger, Radiodiffusion Française".
INT.-SIG.: "La Casquette du Père Bugeaud":



V. by QSL-card. – **PUB.:** Monthly "Ici Alger".

★ ANGOLA (Portuguese West Africa) ★

L.T.: GMT + 1 h. – **L.:** Portuguese. – **Rcvrs.:** 96.000.

EMISSORA OFICIAL DE ANGOLA (Go.).
ADDR.: Caixa Postal 1.321, Luanda, Angola. – **L.P.:** Dir. Gen.: Eng. A. Jacinto Magro. Dir. Adjoining: Eng. J. Ferraz de Carvalho. – Dir. Progr.: Dr. Alfredo Diego jr. – Dir. Adm.: A. Nascimente. – Dir. Tec.: Eng. L. M. Vicente.
HOME SCE.: CR6RZ.

1.350 kc/s	222.2 m	1/3 kW		9.765 kc/s	30.72 m	1 kW	
4995 –	60.54 –	3 –		6.025 –	49.79 –	10 –	
17795 –	16.86 –	10 –					

W.: 11.00–13.30 on 1350, 9765 (11.30–13.30 also 4995). 18.00–21.00 on 1350, 4995, 6025 kc/s 21.00–22.30, 17795 kc/s – **Sun.:** 08.00–09.30 on 1350 kc/s 11.00–17.00, 18.00–21.00, on 1350, 4995, 6025 kc/s. 21.00–22.30 17795 kc/s.
N., Comm., Wrp.: 12.00, 19.00 and 22.15. – **Actualities from Angola and Metropolitan Portugal:** Sun. 12.15, 19.15; **Tourist Prgrs.:** Fri. 18.30. – **Folklore of Angola:** Wed.: 19.45. – **Portuguese Music:** D. approx. 12.30 and 19.30.
ANN.: "Emissora Oficial de Angola-Africa Ocidental Portuguesa«

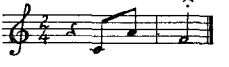
V. by QSL-card.

RADIO CLUBE DE ANGOLA (*Comm.*). 4 s.w. tr. (3 active)
ADDR.: C.P. 229, Luanda. **Cable:** Radangola, Luanda. – **L.P.:** Pres.: Com. M. de Albuquerque e Castro. Secr., Dir. Prgr.: Eng. A. M. da Costa. Production Mgr.: A. dos Santos e Sousa. Dir. Tec.: Eng. A. Palmeiro. Dir. Adm.: J. Teles.
HOME SCE. in Portuguese: Call: CR6 - - - -. **W.:** 06.00–07.00, 11.00–13.30, 17.00–22.00. **Sun.:** 08.00–13.30, 16.00–21.00.

RL 9632 kc/s	31.15 m	1 kW		RA 7142 kc/s	42.01 m	¼ kW	
RN 4869 –	61.60 –	1 –					

N.: D. 06.30, 12.00, 19.00, 21.50. – **Mbg.** Thurs. 20.00. – **Wrp.:** D. 12.10, 19.10. – **Request Prgr.: W.:** 13.00–13.28, Thurs. 20.15–21.00. Sun.: 09.30–10.30, 16.00–17.00.
ANN.: "Luanda, capital de Angola, provincia de Portugal em Africa, fala Rádio Clube de Angola, a "vossa estação".". – **V.** by QSL-card. –

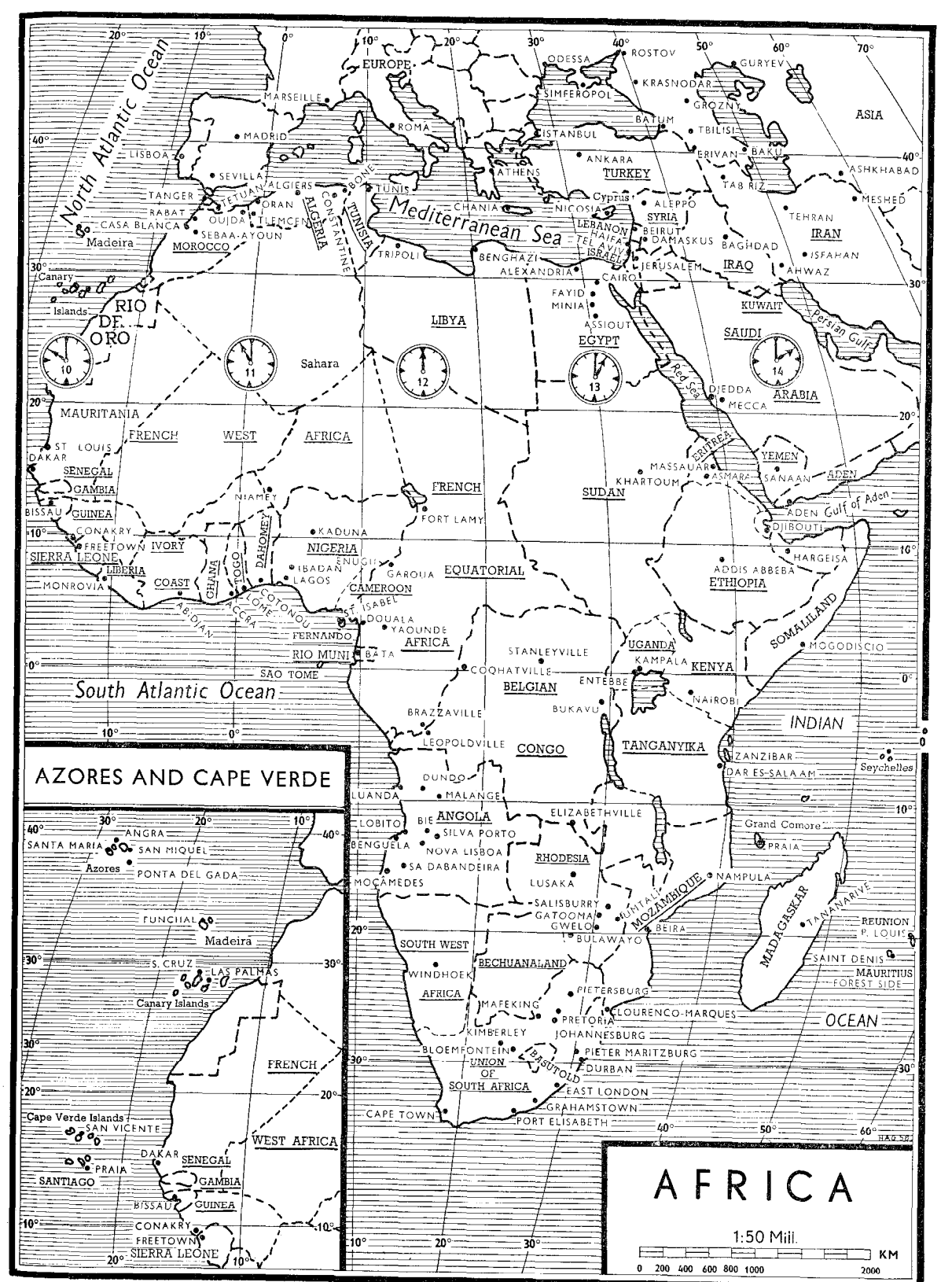
INT.-SIG.:



PUB.: Weekly sched.

RADIO CLUBE DE BENGUELA (Particular-Comm.)
ADDR.: C.P. No. 19, Benguela. – **L.P.:** Dir. Gen.: Eng. M.B. Farinha. Dir. Prgr.: C. A. Morais. Dir. Adm.: M. Toscano. Dir. Tec.: J. C. da Luz.
HOME SCE. in Portuguese: "A Voz de Benguela". **Call:** CR6....
RF 5042 kc/s 59.48 m 1 kW – RF 9502 kc/s 31.57 m 1 kW – RB 7161 kc/s 41.89 m 0.15 kW.
W.: 05.45–06.45, 11.00–13.00, 17.00 (Sat. 16.00)–21.30. Sun.: 09.30–14.00, 16.00–20.00. – **Nat. music:** W. 06.15 exc. Wed., Sat., 17.03, *Tues. 12.30, Sun. 09.30, 10.45 (Request prgr.) 12.30, 16.03. 18.15.* – **N.:** W.: 06.30, 11.45, 18.30, 21.25, Sun. 13.00, 19.55.
ANN.: "Radio Clube de Benguela – una das emissoras angolanas". "This is the Voice of Benguela". – "Radio Clube de Benguela fala para a Congo Belga e Africa Equatorial Francesa". **INT.-SIG.:** Solo on Kissange, a native instrument. – **V.** by QSL-card. – **F.PL.:** Television. – **PUB.:** Prgr. sched. 6 editions yearly.

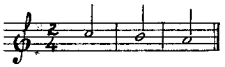
RADIO CLUBE DO BIE (Comm.)
ADDR.: C.P. 33, Silva Porto. – **L.P.:** Pres.: A. A. Pimenta, Mgr.: A. de Almeida, Dir. Tec.: A. Kruger. Dir. Adm.: A. T. de Carvalho, Dir. For. Rel.: A. J. dos Santos Ferrao.


AFRICA
1:50 Mill.
KM
0 200 400 600 800 1000 2000
North Atlantic Ocean
South Atlantic Ocean
Mediterranean Sea
Red Sea
Persian Gulf
Gulf of Aden
INDIAN OCEAN
EUROPE
ASIA
TURKEY
IRAN
IRAQ
SYRIA
LEBANON
ISRAEL
KUWAIT
SAUDI ARABIA
EGYPT
LIBYA
MOROCCO
ALGERIA
TUNISIA
Sahara
MAURITANIA
FRENCH WEST AFRICA
SENEGAL
GAMBIA
GUINEA
SIERRA LEONE
LIBERIA
IVORY
COAST
GHANA
TOGO
DAHOMEY
NIGERIA
CAMEROON
FRENCH EQUATORIAL AFRICA
SUDAN
ERITREA
YEMEN
ADEN
ETHIOPIA
SOMALILAND
KENYA
UGANDA
TANGANYIKA
BELGIAN
CONGO
ANGOLA
RHODESIA
MOZAMBIQUE
MADAGASKAR
SOUTH WEST AFRICA
BECHUANALAND
UNION OF SOUTH AFRICA
BASUTOLD
Madeira
Canary Islands
Cape Verde Islands
Azores
Seychelles
Grand Comore
REUNION
MAURITIUS
SAINT DENIS
FOREST SIDE
RIO DE ORO
SAO TOME
FERNANDO
RIO MUNI
ST. ISABEL
ST. LOUIS
DAKAR
BISSAU
CONAKRY
FREETOWN
MONROVIA
ABIDJAN
ACCRA
LOME
COTONOU
NIAMEY
KADUNA
IBADAN
LAGOS
ENUGU
GAROUA
FORT LAMY
DOUALA
YAOUNDE
BATA
STANLEYVILLE
COQHATVILLE
BRAZZAVILLE
LEOPOLDVILLE
DUNDO
MALANGE
LUANDA
LOBITO
BIE
SILVA PORTO
BENGUELA
NOVA LISBOA
SA DABANDEIRA
MOÇAMEDES
ELIZABETHVILLE
LUSAKA
SALISBURRY
GATOOMA
GWELO
BULAWAYO
UMTALI
BEIRA
NAMPULA
TANANARIVE
PRAIA
ZANZIBAR
DAR ES-SALAAM
MOGODISCIO
ADDIS ABBEBA
HARGEISA
DJIBOUTI
ASMARA
MASSAUAR
KHARTOUM
SANAAN
ADEN
DJEDDA
MECCA
ASSIOUT
MINIA
FAYID
CAIRO
JERUSALEM
DAMASKUS
BEIRUT
BAGHDAD
TEHRAN
ISFAHAN
AHWAZ
ASHKHABAD
MESHED
TAB RIZ
ERIVAN
BAKU
TBILISI
GROZNY
KRASNODAR
ROSTOV
GURYEV
ODESSA
SIMFEROPOL
BATUM
ISTANBUL
ANKARA
ATHENS
ROMA
MARSEILLE
MADRID
LISBOA
SEVILLA
TANGER
RABAT
CASA BLANCA
TETUAN
OUJDA
ORAN
TLEMCEN
SEBAA-AYOUN
ALGIERS
CONSTANTINE
BONE
TUNIS
TRIPOLI
BENGHAZI
ALEXANDRIA
CHANIA
NICOSIA
Cyprus
ALEPPO
HAIFA
TEL AVIV
JERUSALEM
AZORES AND CAPE VERDE
ANGRA
SANTA MARIA
SAN MIQUEL
PONTA DEL GADA
FUNCHAL
S. CRUZ
LAS PALMAS
SAN VICENTE
SANTIAGO
DAKAR
PRAIA
BISSAU
CONAKRY
FREETOWN
SIERRA LEONE
FRENCH WEST AFRICA
SENEGAL
GAMBIA
GUINEA

HOME SCE.: CR6RO 7105 kc/s 42.22 m 1 kW: 11.00–13.00, 16.30–21.30.
ANN.: "Clube do Bié". – INT.-SIG.: Guitar. – V. by QSL-card.

RADIO DIAMANG (Priv. non-comm.)
O.: Comp. de Diamantes de Angola.
ADDR.: R. Diamang, Dundo. – Cable: Diamang, Portugália. – L.P.: Dir. Gen.: G. P. Andringa.
HOME SERVICE: Call CR6... 1 kW. – D.: 18.00–19.30.
RG 4770 kc/s 62.89 m RR 7070 kc/s 42.42 m
RI 9340 – 32.10 – or RR 6870 – 43.63 –
ANN.: "Radio Diamang, Dundo, Angola, Africa Ocidental Portuguesa. Estao a ouvir a estaçao emissora da Companhia de Diamantes de Angola". – INT.-SIG.: At opening "Fragmento da Rapsódia Portuguesa", folklore musical played by a Portuguese typical orchestra. – V. by QSL-card.

RADIO CLUBE DO HUAMBO (Comm.)
ADDR.: C. P. 125, Nova Lisboa. – Cable: Radihuambo. – L.P.: Pres.: Dr. F. de Sa Viana Rebelo. Mgr., Secr. Gen.: J. I. de Almeida. Dir Adm.: M. de Abreu. Dir. Tec.: O. Pedras.
HOME SCE.: CR6–RD
4851 kc/s 61.84 m 1 kW – 7152 kc/s 41.94 m 0.5 kW – 11975 kc/s 25.05 m 1 kW.
W.: 06.00–07.00, 11.00–13.00, 17.00–21.30. Sun.: 06.00–10.00, 11.00–13.00, 14.30–19.00. – N.: 11.30, 18.45.
ANN.: "Aqui Nova Lisboa, R. Clube do Huambo, Uma voz Portuguesa em Africa". "This is the R. Club of Huambo, Nova Lisboa, a Portuguese voice in Africa". – INT.-SIG.:



V. by letter. – F.PL.: S.W.: 1 10 kW tr., 2 5 kW tr., M.W.: 1 kW tr. 1959. – PUB.: Prgr. sched. free upon request.

RADIO CLUBE DE HUILA (Comm.)
ADDR.: C. P. 111, Sá da Bandeira.
HOME SCE.:
CR6RH: 5024 kc/s 59.71 m 0.4 kW.: 06.15–07.30, 11.00–13.30, 17.30–21.30.
9755 kc/s 30.76 m 1 kW: Sun.: 11.15–13.30.
ANN.: "Radio Clube de Huila". – INT.-SIG.: First movements from "Minho". – V. by QSL-card.

RADIODIFUSORA LOBITO (Comm·)
ADDR.: Estaçao Radio Difusora CR6AA, Av. do Imperio, P.O. Box 103, Lobito. Cable: Radiodifusora. – L.P.: O. Dir. A. de Carvalho. Asst. Tec.: J. D. Correia.
HOME SERVICE: CR6AA 1 kW.
5033 kc/s 59.59 m: 16.00–20.00 in Portuguese, English.
7115 kc/s 42.16 m: 06.45–07.45, 11.30–12.45 in Portuguese.
ANN.: P.: "Lobito, Angola, Africa Ocidental Portuguesa". – E.: "This is Lobito, Angola, Portuguese W. Africa, Short Wave St. CR6AA". – INT.-SIG.: Gong notes. – V. by QSL-card.

RADIO CLUBE DE MALANJE (Comm.)
ADDR.: C.P. 83, Malanje. – L.P.: Pres., Dir. Gen.: Dr. L. Vieira. Secr. Gen.: J. A. C. Ferreira.
HOME SCE.: CR6RE 7245 kc/s 41.40 m 0.25 kW.
W.: 06.00–07.00, 11.00–13.00, 17.00–20.00. Sun.: 07.00–10.00, 12.00–20.00. – N.: 06.30, 12.00, 19.45. – Mbg.: D. 11.45, 19.30. Fri. 18.30. Sun. 08.30. – Wrp.: D. 12.00, 19.45.
ANN.: "Radio Clube de Malanje". – INT.-SIG.: Guitar. – V. by QSL-card.

RADIO CLUBE DE MOCAMEDES (Comm.)
ADDR.: C.P. 174, Moçamedes. Cable: Rádioclube. – L.P.: Pres.: J. L. Corado. Dir. Prgr.: C. Meleiro.
HOME SCE.: CR6RM 7230 kc/s 41.49 m 0.35 kW.
W.: 06.00–07.30, 11.00–13.45, 17.00–21.00. Sun.: 07.00–09.00, 11.00–14.00, 16.00–20.00.
N.: 06.30, 12.00, 19.00. – Actualities from Angola: Sun.: 11.00. – Portuguese music: 06.40, 11.30, 13.00, 17.00. – Wrp.: 12.00, 19.00.
ANN.: "De Angola, Africa Ocidental Portuguesa, fala a Estaçao de Moçamedes" – INT.-SIG.: At opening "Monumental" folklore musical piece played on accordion.

RADIO CLUBE DO SUL ANGOLA (Comm.)
ADDR.: C.P. 56, Lobito.
HOME SCE.: CR6RK 3603 kc/s 80.47 m 0.75 kW: 11.00–13.00, 17.30–22.00. – INT.-SIG.: 4 notes on guitar from "Maria da Fonte".

RADIO CLUBE DO CUANZA SUL (Comm.)
ADDR.: C.P. 10, Novo Redondo. – L.P.: Pres. Mgr.: A. C. Castanheira. Adm.: F. L. Pereira.
HOME SCE.: CR6RP 7802 kc/s 38.45 m 0.2 kW: 11.15–11.45, 17.30–19.30.
ANN.: "R. Clube Cuanza Sul". – INT.-SIG.: Guitar. – V. by QSL-card.

RADIO ECLESIA (Catholic)
ADDR.: C. P. 156, Luanda. – L.P.: Dir. Padre J. M. Pereira.
HOME SCE.: Luanda CR6RB 4824 kc/s 62.18 m 6 kW: 05.30–07.30, 09.00–12.30, 14.00–16.00, 17.30–20.30. – N.: 06.00, 11.30, 18.15. – V. by letter. – F.PL.: s. w. 10 kW. m.w. 1 kW.

R. ANDRADE: Luanda. – HOME SCE.: CR6RI 4977 kc/s 60.28 m 0.06 kW: 17.00–18.30.

R. CASSANGUIDI: Luanda. – HOME SCE.: CR6RR 4924 kc/s 60.92 m 0.06 kW: 17.00–19.00.

R. MALUDI: Luanda. – HOME SCE.: CR6RS 4941 kc/s 60.72 m 0.06 kW: 17.00–18.30.

★ BECHUANALAND (British Protectorate) ★

L.T.: GMT + 2 h. – L.: English. – Revrs.: 3000.
ADDR.: ZNB Broadc. St., Box 106, Mafeking.
ZNB 8230 kc/s 36.45 m 0.25 kW – 5900 kc/s 50.84 m 0.25 kW.
D.PRGR.: 11.00–12.00, 17.00–19.00. – V. by QSL-card. R. p.

★ BELGIAN CONGO ★

L.T.: Leopoldville GMT + 1 h., Elisabethville, Stanleyville GMT + 2 h. – L.: French, Flemish. – Revrs.: 50.000.

RADIO CONGO BELGE (Go.) 3 s.w.tr., 1 FM tr.
ADDR.: B. P. 3171, Leopoldville. B. P. 1745, Stanleyville. – L.P.: Leopoldville: Dir. Broadc.: M. Vertommen. African Prgrs.: Dir. Broadc.: L. Lhermitte. Stanleyville: Dir. Broadc.: Ph. Veys.
EUROPEAN PRGR.: Leopoldville.

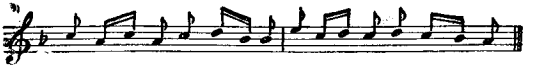
Call	kc/s	m	kW	
OTM2	4760	63.03	7.5	: 05.00–06.30 (Sun. 07.00), 15.30 (Sun. 15.00)–21.00 (Sat., Sun. 22.00).
OTM1	6295	47.66	3	: 15.30 (Sun. 15.00)–21.00. (Sat., Sun. 22.00)
OTM2	9385	31.98	50	: as 4760 kc/s
OTH3	11720	25.60	50	: 10.15–12.30.

FM: 90 mc/s 3.33 m 0.25 kW.
N.: F.: 06.00, 10.30, 11.30, 18.45, 20.50. Fl.: 06.08, 10.40, 11.40, 18.00, 20.55.
ANN.: F.: "Ici Radio Congo-Belge". – Fl.: "Hier Radio Belgisch-Kongo".
AFRICAN PRGR'S.: L.: French, Lingala, Kiswahili, Tshiluba, Kikongo.
Nat. Prgr. (Leopoldville)

OTH	9210 kc/s	32.57 m	50 kW:	04.00–06.30, 15.30–20.00 (Sat. 22.00, Sun. 21.00)
OTM5	11795 –	25.43 –	50 – :	10.00–13.00.

N.: 04.50, 06.00, 10.30, 11.30, 17.00, 18.45. – Mbg.: 17.30.
Regional Prgr's:
R. Stanleyville: OOB 6079 kc/s 49.35 m 3 kW: 15.30–19.00.
Nat. Music: 15.30–16.00.
R. Elisabethville: 5933 kc/s 50.57 m 3 kW: 15.30–19.00.
ANN.: "Ici les Emissions africaines de Radio Congo Belge".
INT.-SIG.: Leopoldville: Tam-tam (native xylophone beat).

Stanleyville: First movement of a native folksong:



V. by QSL-card (Leopoldville); by letter (Stanleyville). – F.PL.: Reg. st. in Coquilhatville, Luluabourg, Bukavu: 10 kW.

RADIO COLLEGE (Pr.)
ADDR.: B. P. 296, Elisabethville. – L.P.: R. R. P. P. Salesiens, Ecole c/o Collège St. Francois de Sales.
H. SCE. French (Fri. Flemish): W. 15.30–17.30. Sun. 07.00–10.00. OQ2AC 0.25 kW: 3390 kc/s 88.5 m – 4980 kc/s 60.25 m – 7200 kc/s 41.67 m. – FM: 96 mc/s 0.05 kW.
ANN.: F.: "Ici Radio-Collège, station de radiodiffusion privée située au Collège Saint François de Sales, à Elisabethville, Congo-Belge". – Fl.: "Hier Radio-Collège, eigen zender van het Sint Franciscus Collège te Elisabethstad, Belgisch Kongo".
INT.-SIG.: Open: "Marche du Baron Tzigane" (Joh. Strauss). Close: "Marche Indigo". – V. by QSL-card. R.p. PUB: R. Collège; monthly)

RADIO LEO (Pr. Religious. Operated by the Jesuits of Leopoldville.)
ADDR.: Collège Albert I, Leopoldville-Kalina – L.P.: Dir. Gen.: L. Rinen. Dir. Tec.: M. van Damme. Dir. Prgr.: R. de Seille.
HOME SCE.: OQ2AA11720 kc/s 25.60 m 50 kW: French: Sun. 08.00–10.00.
ANN.: "Ici Radio–Leo, Leopoldville, Congo Belge. Station priveé de radiodiffusion du Collège Albert I". – INT.-SIG.: Gong and extract from "Saisons-l'automne" (Glazunov). – V. by letter.

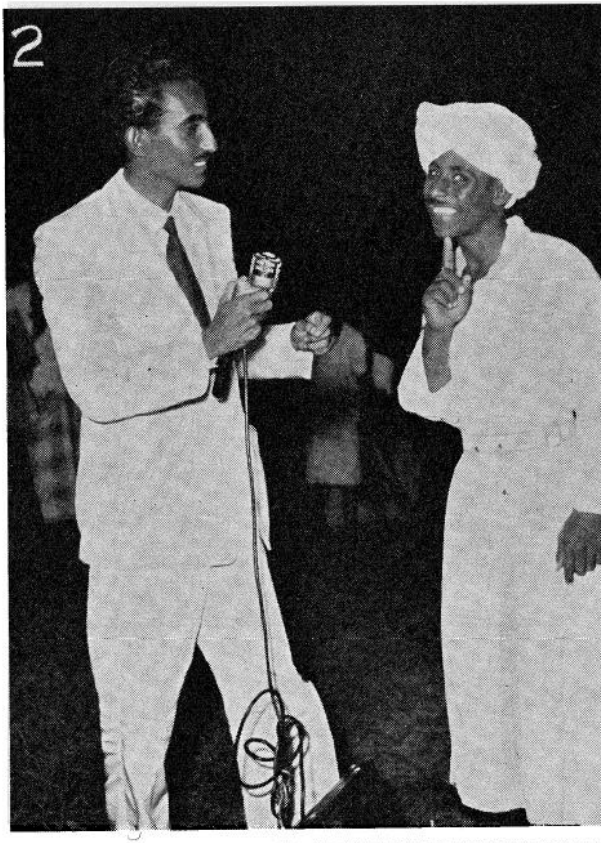
1 Mainichi Broadcasting System, Japan: The Noh Drama is an age-old traditional-Japanese stage art, performed by the masked principal player and other unmasked players, to the accompaniment of a narration, a flute, a drum, other instruments.

2 Aden Radio: Outside Broadcasting for Protectorate-Students.

3 Deutsche Welle, Germany: The Portuguese Team. From left: Maria, Pedro, João.

4 Canadian Broadcasting Corporation: From Montreal. Gina Lollobrigida is interviewed on the program "Carrefour" by Réné Lévesque.

5 Radio ELWA, Liberia: Recording Church Service in the Bassa Language of Liberia.

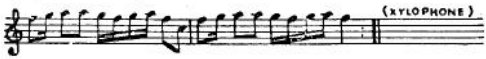


RADIO ELISABETH (financed by the subscription of listeners).
ADDR.: Box 1039, Elisabethville.
Elisabethville OQ2AB 0.25 kW: 7150 kc/s 41.96 m, 11900 kc/s 25.21 m. Sun. 13.30–16.00. – **V.** by QSL-card.

RADIO UFAC (l'Union des Anciens Combattants du Katanga)
ADDR.: B. P. 97, Elisabethville. **Cable**: Radio Ufac.
L.P.: Pres.: R. Lemaire. Dir.: I. Freart. Dir. Tec.: A. Cinna. Dir. Prgr.: J. Dubois.
HOME SCE. in French & Flemish: OQ2AD – 3 kW.
R. Ufac 40/45 4980 kc/s 60.29 m: 17.30 (Sun. 16.00)–20.00
R. VOV 40/45 7156 kc/s 41.93 m: Sun. 08.00–13.00.
French: D. exc. Wed. Sun. 17.00–19.00. – **N.**: 17.45. – **Mbg.**: Sun. 11.00. **Flemish**: Wed., Sun.: 17.00–19.30. – **N.**: 17.00.
ANN.: **F.**: "Ici Radiodiffusion UFAC 40/45". – **Fl.**: "Hier R. VOV 40/45" (Wed., Sun.).
INT.-SIG.: Belgian Congo march. – **V.** by letter.
LES AMIS DE L'ATHENEE:
Luluabourg: OQ2AE 5990 kc/s 50.08 m: Sept. to June on Sun. 07.00–09.00. Wed. 16.00–17.00.
Coquilhatville: OQ2AG 7255 kc/s 41.36 m: Sun. 09.15–10.15.
Bukavu: OQ2AH 7212 kc/s 41.60 m: Sun. 08.30–10.00.

★ CAMEROON (French) ★

L.T.: GMT + 1 h. – **L.**: French, Vernaculars. – **Rcvrs.**: 100.000.
RADIODIFFUSION DU CAMEROUN (Go.)
RADIO DOUALA:
ADDR.: B. P. 986, Douala. – **L.P.**: Dir.: M. Priso. Dir. Prgr.: M. Black.
HOME SCE.: 1448 kc/s 207 m 1 kW – 6115 kc/s 49.06 m 1 kW: W.: 05.45–07.30, 11.15–12.30, 17.00–21.00. Sun.: 07.00–13.00, 17.00–21.00 in **French, Bassa, Bamiléké.**
ANN.: **F.**: "Ici Douala, Radiodiffusion du Cameroun". – **INT.-SIG.**: Eight first movements of "Alouette...Gentille alouette" on xylophone. – **V.** by QSL-card. R. p.



RADIO YAOUNDE:
ADDR.: B. P. 281, Yaoundé. – **L.P.**: Dir. Cameroon Broadc.: M V Jean-Louis. Ass. Dir., Chief Editor: M. B. Lucas. Dir. Tec.: M. Chevillon.
HOME SCE.: 1538 kc/s 195 m 1 kW – 4975 kc/s 60.30 m 4 kW: W.: 05.30–08.00, 11.15–12.30, 17.00–21.00. Sat.: 05.30–08.00, 11.15–12.45, 15.00–22.00. Sun. 07.00–21.00.
Cameroon music: D. 06.15–06.45. Thurs., Sat.: 19.00–21.00. – **N.**: W.: 05.45, 06.00, 06.45, 11.45, 18.00, 18.30, 20.55. Sun.: 09.00, 12.15, 17.00, 18.30, 20.55.
ANN.: **F.**: "Ici Yaoundé, Radiodiffusion du Cameroun". – **INT-.SIG.**: Local music on balafon. – **V.** by QSL-card.
R. GAROUA. Garoua (No. area of Cameroon).
ADDR.: B. P. 97, Garoua. – **L.P.**: Dir.: Guy Breton. Dir. Tec.: Rawiri. Dir. Tec.: Moudiky.
HOME SCE.: 1348 kc/s 224 m 1 kW in **French, Haussa, Foulfouldé**: W.: 11.30–12.00, 18.15–20.00. Sun.: 10.30–12.30, 18.00–20.00.
Haoussa music: D. 19.05–19.25. – **N.**: **French**: 11.30, 18.00. **Haussa**: 19.00. **Foulfouldé**: 12.00.

★ CANARY ISLANDS (Spanish) ★

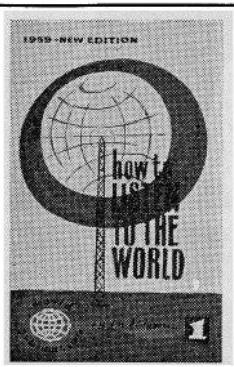
L.T.: GMT – **L.**: Spanish, English. – **Rcvrs.**: 90.000
RADIO LAS PALMAS (Comm.)
ADDR.: Calle Trianum 134 Dpdo., Las Palmas. – **L.P.**: Dir.: P. Segura
HOME SCE.: EAJ50 1313 kc/s 228.5 m 0.5 kW: D. 10.30–23.00.
ANN.: "Transmite la Estacion E.A.J. 50 Radio Las Palmas". – **INT.-SIG.**: Pasodoble "Islas Canarias". – **V.** by letter.
RADIO CLUB TENERIFE (Cultural and Comm.)
ADDR.: Apt. de Correos 225, S. Cruz de Tenerife.
L.P.: Pres.: J. G. Sanjuan. Dir. Tec.: Padrón.
HOME SCE.:

EAJ43	1412 kc/s	212.4 m	0.4 kW	12.00–17.00, 18.00–23.00
EAJ8AB	7295 –	41.12 –	0.25 –	17.00–18.00, 21.00–23.00

ANN.: "R. Club Tenerife, S. Cruz da Tenerife". – **INT.-SIG.**: Opening "Los Voluntarios". – **V.** by QSL-card.
RADIO ATLANTICO (Broadc. System of the Falange)
ADDR.: Buenos Aires 26, (near future: Calle General Franco 50), Las Palmas. – **L.P.**: Dir.: José A. Gutiérrez Peña. Dir. Tec.: J. G. Bantista.
HOME SCE. in Spanish & English:
1500 kc/s 200 m 2 kW: D.: 08.00–09.00, 11.00–15.30, 18.00–24.00.
7000 kc/s 42.86 m: 9490 kc/s 31.61 m 1 kW: D. 22.00–24.00.
Nat. music: 22.00–23.00. – **N.**: 23.00. – **Mbg.**: 23.15–23.30. – **Prgr. in English**: Sat. 23.00–24.00 on 7000, 9490 kc/s.
ANN.: **English**: "This is R. Atlantico". – **Spanish**: "Transmite Radio Atlantico". – **INT.-SIG.**: Canary guitar-accords. – **V.** by QSL-card. – **F.PL.**: sw-tr. 2 kW.

★ CAPE VERDE ISLANDS (Portuguese) ★

L.T.: GMT ÷ 2 h. – **L.**: Portuguese, English. – **Rcvrs.**: 1.400.
RADIO CLUBE DE CABO VERDE (Pr.), C.P. 26, Praia, Ilha de Santiago.
HOME SCE.: CR4AA 3960 kc/s 75.76 m 5 kW: 20.00–22.00. – **N.**: 21.40. – **Wrp.**: 21.35.
ANN.: "Aqui Praia, estacão de ondas curtas do R. Clube de Cabo Verde" – **INT. SIG.**: Four notes on marimba – **V.** by QSL-card.
RADIO CLUBE MINDELO (Pr.)
ADDR.: Rua Roberto Duarte Silva, Cidade do Mindelo.
HOME SCE.: CR4AB 4755 kc/s 63.09 m 0.06 kW: 20.30–22.00.
ANN.: "S. Vicente de Cabo-Verde, fala-vos a Emissora do Rádio Clube Mindelo, na banda habitual dos 62 metros, equivalente à frequência de 4755 kc/s. Amigos ouvintes, boa noite vos da o locutor..." – **V.** by QSL-card or letter. – **F.PL.**: 1 kW s.w. tr.
R. BARLAVENTO (Local club, non- comm). **ADDR.**: C. P. 29, S. Vicente. – **L.P.**: Dir. Gen.: Dr. A. L. da Silva. Dir. Tec.: T. Pias.
HOME SCE.: CR4AC 3960 kc/s 75.76 m 1 kW: 22.00–24.00. – **N.**: 22.35, 23.30. – **Wrp.**: 22.30. – **V.** by QSL-card.



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★ COMORES ISLANDS (French) ★

L.T.: GMT + 3 h. – L.: French.
RADIO DZAOUDZI (Go.)
ADDR.: L'Administrateur Supérieur du Territoire des Comores, Service de la Radiodiffusion, Dzaoudzi, Grand Comore.
HOME SCE.: 7340 kc/s 40.71 m 0.5 kW: Sun. 12.00–13.30.

★ DAHOMEY (French West Africa) ★

L.T.: GMT + 1 h. – L.: French, Vernaculars. – Rcvrs.: 2000.
RADIO COTONOU (Go.)
ADDR.: B. P. 366, Cotonou. – L.P.: Dir. Gen.: Marc Darnois.
HOME SCE. in French, Fon, Yoruba, Mago, Mina, Denai:
1475 kc/s 203 m 1 kW } W. 05.45–06.30, 11.00–12.00 (Sat. 13.00),
4870 – 61.60 – 4 – } 17.00–21.45. Sun.: 08.00–12.00, 17.00–
7190 – 41.72 – 4 – } 21.45.
N. French: D. 19.00. – Inf. in Vernaculars: D. 17.50–19.00. – Folklore: 17.01–17.50. – INT.-SIG.: Dahomey Tam Tam. – V. by letter.

★ EGYPT (United Arab Rep.) ★

L.T.: GMT+2 h. (Su. 1/5–30/9 GMT+3 h.). L.: Arabic. Rcvrs.: 1.000.000.
CAIRO U.A.R. BROADCASTING SERVICE (Go.)
ADDR.: Offices & Studio Centre I: 4, Sherifein Str., Cairo. – Studio Centre II: 5, Elwi Str., Cairo. Cable: "Kahiradio." – L.P.: Dir. Gen.: M. A. Hammad. Dep. Dir. Gen.: S. Amer (Engineering), A. H. Yonnes (Arabic Prgr.), A. H. El-Hadidi (Foreign Prgr.), M. M. Taifour (Adm.). Controller Foreign Rel.: M. El-Bassiouni. Controller Main st.: E. El-Kashlan. Controller Subsidiary st. & Propagation: E. Fouad.
STATIONS: Medium Waves.

	kc/s	m	kW		kc/s	m	kW
Cairo III	557	538.6	20/50	M II	1034	290.1	10
Cairo IV	620	483.9	300	Minia	1079	278.0	2
Cairo I	773	388.1	50/100	Sohag	1142	262.7	2
Luxor	818	366.7	2	M III	1160	258.6	10
M I	863	347.5	10	Assouan	1178	254.7	2
Cairo II	926	324.0	100	Alexandria	1313	228.5	2
Assiout	980	306.1	10				

Short Waves: 50/70/90/100 kW.

kc/s	m	kc/s	m	kc/s	m	kc/s	m	kc/s	m
6215	48.27	9790	30.64	11990	25.02	15315	19.59	15465	19.39
6250	48.00	9795	30.62	11995	25.01	15330	19.57	17765	16.89
7050	42.55	11670	25.71	12025	24.95	15380	19.51	17780	16.87
7330	40.93	11675	25.70	12030	24.94	15390	19.49	17915	16.75
9475	31.66								

HOME SERVICE

MAIN ARABIC PRGR.: kc/s
D. exc. Fri. 04.15–07.00 } 773/1079/980/1142/818/1178/9790/15390
Fri. 04.15–06.45 }
D. exc. Fri. 07.00–09.00 } 926/1079/980/1142/818/1178/9790
Fri. 06.45–09.00 }
D. exc. Fri. 09.00–11.00 926/9790
Fri. 09.00–11.00 926/1079/980/1142/818/1178/9790/15390
D. 11.00–13.00 773/1079/980/1142/818/1178/9790/15390
D. exc. Fri. 13.00–14.30 773/9790
Fri. 13.00–14.45 773/9790
D. exc. Fri. 14.30–23.00 } 773/926/1079/980/1142/818/1178/9790/15390
Fri. 14.45–23.00 }
N.: 05.00, 12.30, 13.30, 13.40, 15.00, 18.30, 21.00, 22.45. Nat. Music: 08.45, 10.45, 12.50, 14.30, 17.30. Mbg.: Fri. 05.30. Request Prgr.: Sun. 20.00. Wed. 16.45. Fri. 05.45. Prgr. Preview: 04.15, 14.45.
VOICE OF ARABS:
03.30–04.20 on 926/7050/11670 kc/s. 11.00–12.00 on 7050/11670 kc/s. 16.30–18.00 on 620/7050/11670 kc/s. 18.00–22.30 on 620/7050/11670/15330 kc/s.
N.: 04.00, 11.30, 18.00, 18.45, 20.30, 22.00. – Mbg.: D. 16.35, 17.00, 22.10. – Request Prgr.: Sun., Tues., Fri. 19.30. – Prgr. Preview: 04.15, 11.55.
SUDANESE PRGR.
04.30–05.30 on 926/7050/11670 kc/s. N.: 04.40, 05.00.
14.30–16.20 on 620/7050/11670 kc/s. N.: 14.50, 15.03, 15.45.
SECOND ARABIC PRGR. (Cultural)
19.00–21.00 on 1160/1313 kc/s Prgr. Preview: 19.00, 21.00.
ALEXANDRIA REGIONAL PRGR.
15.00–19.00 on 1313 kc/s. N.: 17.30.
FOREIGN LANGUAGE PRGR. (Local service)
05.15–07.00, 10.30–12.30 on 557 kc/s. 15.00–17.00 on 1160 kc/s. 17.00–21.30. on 557 kc/s. Fri., Sun. also 07.00–10.30 on 557 kc/s
English: N.: 18.00. Prgr.: 16.00–17.00(Wed), 19.00–20.00(Fri).
French: N.: 06.00, 18.45. Prgr.: 16.00-17.00(Sun), 19.00–20.00(Tues).
Greek: N.: 05.15, 17.00. Prgr.: 16.00–17.00(Tues), 19.00–20.00(Sat).
Italian: N.: 17.30. Prgr.: 16.00–17.00(Mo), 19.00–20.00(Thurs).

FOREIGN SERVICE

To ISRAEL		kc/s	To MIDDLE EAST		kc/s
Hebrew	04.00–05.15	557	Kurdish	15.15–16.00	11990
	15.00–17.00	557	Turkish	16.00–16.45	11990
To SO. & SO.EA. ASIA		kc/s	Persian	17.00–17.45	11990
Arabic	11.00–11.30	17915	To EUROPE		kc/s
Indonesian	11.30–12.30	17915	French	19.00–20.00	11990
Malay	12.30–13.00	17915	German	20.00–21.00	11990
Bengali	13.00–13.30	17915	English	21.00–22.00	11990
English	13.30–14.30	17915	To No. & So. AMERICA		kc/s
Urdu	14.30–15.00	17915	Portuguese[1])	00.00–00.45	9790
To EAST AFRICA		kc/s	Spanish[1])	00.45–01.30	15390
Sudanese	15.15–15.30	17915	Arabic[1])	01.45–02.45	15390
Swahili	15.30–16.30	17915	Arabic[2])	01.45–02.45	9790
Amharic	16.30–17.00	17915			
Somali	17.45–18.30	17915			

[1]) for So. Am. [2]) for No. Am.
DICTATION NEWS in Arabic: 06.30–06.45, 12.00–12.15 on 7050/11670 kc/s.
INT.-SIG.: Camel Bells. – V.: Reports wanted. They are answered by QSL-card. Reports should be adressed to Monitoring Dept.: Engineering Section, Egyptian Broadcasting, Cairo. – PUB.: Weekly and quarterly magazines in Arabic.

★ ETHIOPIA ★

L.T.: GMT + 3 h. – L.: Amharic, Arabic, English, Somali. – Rcvrs.: 50.000.
RADIO ADDIS ABABA (Go.)
ADDR.: Imperial Ethiopian Government, Press & Information Dept., P.O. Box 1364, Addis Ababa. – Cable: "Ethiopress". – L.P.: Dir. Gen.: A. K. Asfaw. Dir. Prgr.: A. T. Abebe.
STATIONS: Addis Ababa.
6185 kc/s 48.50 m 1 kW 9620 kc/s 31.19 m 7.5 kW
7290 – 41.15 – 3 – 15345 – 19.55 – 3 – d
D. PRGR.: On 6185/7290/9620 kc/s:
Amharic: 05.00–05.30, 06.30–07.30 (Sun.), 11.00–12.00, 16.30–18.00. – N.: 05.15, 11.15, 17.00. Nat. Music: 05.00, 11.00, 11.30, 16.30, 17.30. – Somali: 16.00–16.30. – Arabic: 18.00–18.15.
On 9620 kc/s: English: D. 10.00–11.00. N. & Music.
On 15345 kc/s: English: D. 18.15–19.00. N. & Music.
ANN.: Amharic: "Yih Yaddis Abeba Radio Tabiya Nawu". English: "This is R. Addis Ababa the Voice of Ethiopia". – V. by QSL-card. – F.PL.: Two 10 kW sw.tr's at the end of 1959.

★ ERITREA ★

ARMED FORCES RADIO & TV SCE.: See USA.

★ FRENCH EQUATORIAL AFRICA ★

L.T.: GMT+1 h. – L.: French. – Rcvrs.: 3.600.
RADIODIFFUSION-TELEVISION FRANÇAISE (Go.)
ADDR.: R. AEF, B.P. 228, Brazzaville – Radio Brazzaville: B. P. 108, Brazzaville. Cable: Radiodiffusion. – L.P.: Dir. Gen.: C. Boissiere. Dir. Adm.: A. Taillade. Dir. Tec.: H. Defroyenne. Dir. Inf.: R. Branellec. Dir. Prgr.: J. Prevost. Dir. For. Rel.: E. Collins.
NATIONAL SCE., in French, Munukutuba, Lingala, Sangho. –
RADIO AEF.
1484 kc/s 202.2 m 0.8 kW: D. 11.00–12.30, 17.00–20.30.
4795 – 62.57 – 4 – : D. 11.00–12.30 d. We.
7295 – 41.15 – 4 – : D. 17.00–20.30 d. We.
9545 – 31.40 – 4 – : D. 11.00–12.30 d. We.
9625 – 31.16 – 50 – : D. 11.00–12.30 D. Eu.
15440 – 19.50 – 4 – : D. 17.00–20.30 d. No.
N.: French: D. 11.30, 17.30, 17.55, 19.00. 20.30. – Nat. Music: D. 11.00, 11.50, 17.00, 18.45, 20.15.
INTERNATIONAL SCE. – **RADIO BRAZZAVILLE**

kc/s	m	kW	kc/s	m	kW	kc/s	m	kW
5970	50.25	3	9730	30.83	7	15420	19.46	50
9625	31.16	50	11970	25.05	50/7	15440	19.43	50
						17885	16.78	50

Time	kc/s	Beamed to:	News:
05.00–07.00	15440, 11970, 5970, 9730	Africa	F.: 05.00, 06.00, 06.50 E.: 05.15
08.30–09.15	15440	Pacific	E.: 08.30. F.: 09.00
09.15–10.30	11970	Africa	Sun. only
11.00–11.30	15420, 15440	Australia	E.: 11.00, 12.00. F.: 11.30
11.00–11.55	15420	Middle East	E.: 11.00. F.: 11.30
13.30–15.15	17885	Far East	F.: 13.30, 15.00. E.: 14.30
14.00–17.00	1484, 4795, 5970, 9625	Africa	Sun. only (Sport)
18.30–23.00	11970	Africa, Tahiti	F.: 19.00. P.: 18.45. E.: 18.30
23.00–03.00	11970	No. Amer.	E.: 01.15, 02.45
23.00–03.00	11970, 9625	C. America	P.: 23.20. F.: 24.00. Sp.: 00.30
23.00–03.00	9625	So. America	E.: 01.15, 02.45

ANN.: **Radio Brazzaville:** Home Sce.: "Ici Brazzaville, Poste National Français". – International Sce.: "This is Radio Brazzaville, The French National Broadcasting Station in Central Africa". – **P.:** "Aqui Radio Brazzaville, Emissora Nacional da Franca na Africa Equatorial". – **Sp.:** "Aqui Radio-Brazzaville, Emis. Nacional Francesa".
INT.-SIG.: Five different notes played on a native instrument (Kisanzi) consisting of several vibrating iron bars attached to a wooden box. – V. by QSL-card or letter. R.p. – **PUB.:** Prgr. sched. monthly. Free upon request.

RADIO TCHAD (Go.)
ADDR.: B. P. 168, Fort Lamy, Tchad. – **L.P.:** Dir.: Le Gall.
HOME SCE. in **French, Arabic, Sara:** W.: 11.30–13.30, 17.00 (Thurs. 16.00)–21.00. Sun. 10.00–21.00.
1538 kc/s 195 m 1 kW 4904 kc/s 61.18 m 4 kW 6165 kc/s 48.66 m 4 kW
Prgr's in Sara: 11.30–11.55 N. Music, information. 17.00–17.35 N. Music, Mbg. – **Prgr's in Arabic:** 11.55–12.20 N., Music. 18.35–19.30 N. Music, Mbg. – **Prgr's in French:** 12.20–13.30 N., Tchad Flashes. 17.55–21.00 Local N., relay R. AEF (18.15), Music.
ANN.: "Ici Radio Tchad, Station du Reseau de la Radiodiffusion de la France d'Outre-Mer". – V. by letter.

★ GHANA ★

L.T.: GMT. – L.: English, Twi, Fanti, Ewe. – **Rcvrs.:** 80.000.

GHANA BROADCASTING SYSTEM (Go.)
ADDR.: Broadcasting House, P.O. Box 1633, Accra. **Cable:** "Broadcasts". – **L.P.:** Dir.: J. B. Millar, B.A., M.B.E. Dir. Tec.: W. F. Coleman, A.M.I.E.E. Head of Prgr.: J. Ghartey. Head of N.: E. G. K. Adjorlolo.
HOME SERVICE:
3366 kc/s 89.12 m 20 kW: 05.55–08.00, 15.45–22.15 (Sat. 23.00)d*
4915 – 61.04 – 5 – : 05.55–08.00, 12.00–22.15 (Sat. 23.00)d*
9640 – 31.12 – 1.3 – : 12.00–18.15 d*. * Sun. 05.55–22.15
N. in English: 06.00 (Home), 07.00 (BBC), 13.00 (Home), 18.00 (Home) 20.00 (BBC), 21.00 (Home). – **N. in Ghana languages:** 12.15, 16.30. – **Wrp.:** 12.00, 17.45.
ANN.: "This is the National Service of the Ghana Broadcasting System preceded by drumming" or "This is R. Ghana, Accra". –
INT.-SIG.: Guitar. – V. by letter. R.p. – **PUB.:** Weekly bulletin by request at the Revenue Offices of the wired rel. st., of which R. Ghana has 34 scattered throughout the country.

★ GUINEA ★

L.T.: GMT. – L.: French, Metinka, Soussous, Foulah, Peulh. – **Rcvrs.:** 2000.

RADIO GUINEE (Go.)
ADDR.: B.P. 617, Conakry. – **L.P.:** Dir. Gen.: A. Diop.
HOME SERVICE:
1403 kc/s 213.8 m 1 kW } W.: 07.00–08.00, 12.15–13.30 (Thurs. 14.00),
4910 – 61.10 – 4 – } 18.30–21.30 (Sat. 16.00–22.30). Sun.: 10.00–
7125 – 42.11 – 4 – } 13.45, 16.00–22.30.
Vernaculars: D. 18.30–19.40 (Fri., Sun. 20.00). Other prgr.s **French:** N.: D.: 07.00, 12.45, 20.00.
ANN.: "Ici Conakry". – **INT.-SIG.:** First movement of "Marouf" by H. Babaud. At opening: First movement of "Veronique" by A. Messager. – V. by letter.

★ GUINEA (Portuguese) ★

L.T.: GMT + 1 h. – L.: Portuguese. – **Rcvrs.:** 1434.

EMISSORA DA GUINE (Go.)
ADDR.: Emissora da Guiné, Bissau.
L.P.: Pres.: L. Monteiro de Oliveira Santos.
HOME SCE.: 21.30–23.00 CMQ 3974 kc/s 75.48 m 1 kW.
ANN.: "Aqui Bissau, Emissora da Guiné". – **INT.-SIG.:** "Variations in D-minor" by A. Paredes played on guitar. – V. by QSL-card.

★ GUINEA (Spanish) ★

L.T.: GMT + 1 h. – L.: Spanish. – **Rcvrs.:** 1200.

EMISORA DE RADIODIFUSION SANTA ISABEL (Go.)
ADDR.: Apartado de Correos no. 195, Santa Isabel.
D. **Prgr.:** W.: 06.30–07.30, 12.00–14.00, 17.00–21.00. Sun.: 12.00–14.30, 18.30–20.30.
Santa Isabel 7160 kc/s 41.90 m 0.5/5 kW. – **N. in Sp.:** W. 13.15–13.30. **French:** 18.45–19.15. **Portuguese:** 18.00–18.30. **Bubi & Pamue:** 17.00–18.00. – **INT.-SIG.:** Opening: "Los Voluntarios". Close down: Spanish National Hymn. – ANN.: "Aqui Emisora de Radiodifusión de Santa Isabel de Fernando Poo". – V. by letter.

RADIO ECUATORIAL (Go.)
ADDR.: Apt. 57, Bata, Rio Muni. – **L.P.:** Dir.: E. L. Saéz.
HOME SCE.: 7850 kc/s 38.20 m 0.4 kW: 11.00–13.45, 19.00–22.00
ANN.: "Aqui Radio Ecuatorial, Bata, La Voz de España en Guinea". V. by QSL-card.

★ IVORY COAST (French West Africa) ★

L.T.: GMT. – **L.:** French, Vernaculars. – **Rcvrs.:** 30.000.

RADIO ABIDJAN (Go.)
ADDR.: Radiodiffusion de la Côte d'Ivoire, B.P. 2261, Abidjan. – **L.P.:** Dir.: R. Weill.
HOME SERVICE in **French and Vernaculars:**
1493 kc/s 201 m 4 kW } Wed. 06.30–08.00, 12.15–13.30, 17.45–
4940 – 60.72 – 10 – } 22.30. – Sat. 12.15–24.00. – Sun. 07.45–
7149 – 41.96 – 1 – } 22.30.
N.: French: 06.45, 12.45, 18.00, 20.00. **Vernaculars:** 17.45, 18.20 (Mossi, Djoula, Ebrié, Bété, Baoulé).
ANN.: "Ici Abidjan, Radiodiffusion de la Côte d'Ivoire émettant sur...". – **INT.-SIG.:** First 10 bars of the Allobroges. – V. by QSL-card. R.p. – **F.PL.:** 25 kW m.w. st. January 1959.

★ KENYA (British) ★

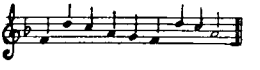
L.T.: GMT + 3 h. – **L.:** English, Hindustani. – **Rcvrs.:** 23.351.

CABLE AND WIRELESS BROADCASTING SCE. (Pr. under licence to Go.)
Broadcasting is to be taken over by the Kenya Government as from October 1959. The informations will only be accurate up to that date.
ADDR.: P.O. Box 777, Nairobi. **Cable:** Empiregram. – **L.P.:** Mgr.: K. G. Rogerson. Dir. Prgr.: R. Coltart. Chief Eng.: W. H. Stephens.
HOME SERVICE: VQ7LO
Hindustani:
683 kc/s 439.2 m 2 kW } D. 10.00 (Sun. 07.00)–11.00, 15.45–
4855 – 61.79 – 7 – } 19.00. – **N.:** 18.10.
6060 – 49.50 – 7 – }
English:
863 kc/s 347.6 m 5 kW } W.: 03.30–05.10, 10.00–11.15, 15.00–
4885 – 61.41 – 7 – } 20.00. Sun.: 07.00–11.15, 15.00–19.00.
7240 – 41.44 – 7 – } N.: 16.10, 18.15 (local). Rel. BBC. – Wrp.: 04.05, 10.30, 16.15, 18.20.
ANN.: "This is the Cable and Wireless Broadcasting Station, Nairobi" or "This is Nairobi". – V. by letter.

AFRICAN BROADCASTING SERVICE (Go.)
ADDR.: P.O. Box 30025, Nairobi, Kenya. **Cable:** Knowledge. – **L.P.:** Dir. of Inf.: J. H. Reiss. Mgr.: A. M. Dean: Dir. of Prgr.: B. Morton-Smith. Controller Adm.: E. C. Eggins Dir. Tec.: G. Phillips.

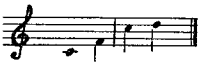
STATIONS:		kc/s	m	kW
Nairobi	ZHW3	620	483.9	0.5
Mombasa	ZHV5	791	379.2	0.5[1]
Kisumu	ZHW7	1268	236.6	0.5[3]
Kisumu	ZHW6	4804	62.45	0.5[3]
Nairobi	ZHW2	4934	60.80	7.5
Mombasa	ZHW4	4985	60.18	0.5[1]
Nyeri	ZHW24	6170	48.62	0.2[2]

[1]) Sauti Ya Mvita [2]) Mount Kenya st. [3]) West Kenya st.
HOME SCE. in **Swahili:** 620/4934 kc/s: W.: 03.30–04.30, 10.00–11.00, 14.15–18.30. Sun. 05.00–10.30, 14.30–18.45. – Nat. Music: Sun. 06.15, Mo. 17.45. – **N.:** D. 15.45. – **Wrp.:** D. 15.55. – **Prgr. in English:** D.: 18.00–18.30.
ANN.: E.: "This is the African Broadcasting Service, Nairobi, Kenya". – **Swahili:** "Hii ni African Broadcasting Service, Nairobi, Kenya". –
INT.-SIG.: African Mbira (Manually operated music box).
V. by letter – **PUB.:** Habari Za Radio (Monthly).



RADIO MOMBASA: ADDR.: Box 2200, Mombasa. **Cable:** "Knowledge". – **L.P.:** Head: The Provincial Information Officer: K. J. A. Hunt. Ass. Dir. R. N. Watkins-Pitchford. Broadc. Officer: A. E. Woodham. Tec. Officer: E. Everson.
HOME SCE.: 791 kc/s – 4985 kc/s.
D.: 03.30–04.30, 15.00–20.00. Sun. also 08.00–10.00. – **N.: Swahili:** 17.15. **Arabic:** 19.00. – **Nat. Music:** 04.05–04.30, 19.30–20.00. – **Mbg.: Swahili:** Sat. 16.15.
ANN.: E.: "This is Sauti ya Mvita (Mombasa)". **Swahili:** "Hiini Sauti ya Mvita (Mombasa)". – **INT.-SIG:** Composite of Arabic Flute Music and ann. in Swahili. – V. Reports from Kenya Coast Pro. only.
R. KISUMU. ADDR.: West Kenya Station. Private Bag, Kisumu. – **L.P.:** Prgr. Organizer: W. Mbotela. Tec. Officer: J. Cook. –
On 1268/4804 kc/s in **Swahili and Vernaculars***: W.: 03.30–04.30, 14.00–18.10. Sun. 05.00–10.00, 14.00–17.00 **N.: Swahili:** 15.45. – **English:** (rel. BBC): D. 18.00–18.10. – ***Swahili, Nandi, Luo, Luluhya, Kisii.**
ANN.: **E.:** "This is the West Kenya Station of the African Broadcasting Service transmitting on..." – V. by letter. R. p.
R. NYERI: ADDR.: Mount Kenya, P.O.Box 140, Nyeri. – **L.P.:** Prgr. Organizer: J. Murdoch. Tec. Officer: L. Mazery.
On 6170 kc/s in **Kikuyu:** W.: 04.00–05.00, 10.00–11.10, 13.15–17.00.

FORCES BROADCASTING STATION (Army Welfare, War Office).
ADDR.: British Forces P.O. 10, Nairobi. – L.P.: St. Commander: Miss W. Barnes. Prgr. Officer: P. Kazarine. Tec. Officer: C. R. Dickinson.
STATIONS: 1448 kc/s 207 m 1 kW – 6112 kc/s 49.08 m 0.25 kW.
HOME SERVICE: English: W. 03.00–05.15, 09.30–11.15, 13.00–20.10. Sun. 04.00–20.10. – N.: 04.30 (Sun.), 07.00 (Sun.), 10.00 (W), 11.00 (D), 16.00 (D), 18.00 (D), 20.00 (D). – ANN.: "This is the Forces Broadcasting Station East Africa". – INT.-SIG.:



★ LIBERIA ★

L.T.: GMT + 3/4 h. – L.: English, Liberian vernaculars – Rcvrs.: 10.000. – 1 m.w.st., 3 s.w.st.
RADIO STATION ELWA (Non-Comm. Broadcasting Arm of Sudan Interior Mission).
ADDR.: ELWA Radio Village, Box 192, Monrovia. – Cable: Evangel.
L.P.: St. Mgr.: Rev. R. G. de la Haye. Dir. Tec.: H. Ries. Dir. Prgr.: D. Reed. Dir. Press: A. Snyder. Dir. African Languages: W. Thompson.
STATIONS:

kc/s	m	kW	kc/s	m	kW	kc/s	m	kW
710	422	1	11745	25.54	10d.	21535	13.93	1/2d.
4770	62.89	10d.	15120	19.84	1d.			

HOME SCE: 710 kc/s. English: W. 06.45–09.15, 18.15–21.45. Sun.: 07.15–10.45. 16.15–23.15. N.: 07.00, 20.00, 20.45.
FOREIGN SCE.:
W. AFRICA: English: D. 06.45–09.15. Sun. 07.15–10.45 in 13, 62 m.b.; D. 19.45–21.00 in 62 m.b. – English, French: Sun. 19.45–23.15 in 62 m.b. – French: D. 21.00–21.45 in 62 m.b. – African languages: D. 05.30–08.00 in 19 m.b.
C. WE. AFRICA: English, French: D. 05.30–06.30 in 13, 25 m.b. – English, French, Arabic: D. 16.00–19.30 in 13, 25 m.b.
NO. AMERICA: English: Tues. 22.55–00.45 in 13, 19 m.b. Wed. 00.55–02.45 in 13, 25 m.b.
English: N.: on 4770 kc/s 07.00(W), 20.00(D), 20.45(W). – N. on 11745 kc/s: 18.00 (W). – Request Prgr.: W. 06.45–07.00 on 4770 kc/s, Tues. 23.25–23.50 on 21535, 15120 kc/s, Wed. 01.25–01.50 on 11745, 21535 kc/s. – Mbg.: (Activities Report): Wed. 00.20–00.30 on 21535, 15120 kc/s, 02.20–02.30 on 21535, 11745 kc/s.
ANN.: Home Sce.: "This is ELWA Radio Village, broadcasting from Monrovia, Liberia". Foreign Sce.: "This is ELWA Radio Village broadcasting from Monrovia, Liberia". F.: "Ici ELWA, Radio Village, Monrovia, Liberia". – V. by QSL-card or letter. R. p. appreciated. – PUB.: R. News Bulletin quarterly and Prgr. sched. every six months, free upon request.
Free on request. – F.PL.: 50 kW s.w. tr. 1959.
LIBERIAN BROADCASTING COMPANY (Comm.)
ADDR.: Liberian Broadc. Company, Monrovia.
HOME SCE.: English and Arabic. ELBC 900 kc/s 333.3 m 15 kW – ELBI 6022 kc/s 49.81 m 1 kW. – ANN.: "This is the Liberian Broadcasting Company".

★ LIBYA ★

L.T.: GMT+2 h. – L.: Arabic.
LIBYAN BROADCASTING SERVICE (Go.)
ADDR.: P.O. Box 333, Tripoli. – Cable: Idaalibya. – L.P.: Mgr.: Fuad Kabazi. Prgr. Cons.: J. Reilly. Dir. Tec.: B. Banks.
STATIONS:
Tripoli 1052 kc/s 285.1 m 50 kW – Tripoli 6140 kc/s 48.86 m 3 kW
Benghazi 1484 kc/s 285.1 m 2 kW – 7180 kc/s 41.78 m 3 kW
D. PRGR.: 05.15–06.00(06.30), 18.00–21.15. – N.: 05.30, 18.15, 19.30, 21.00. – Wrp.: 05.30. – Nat. Music: 05.45–06.00(06.30). – ANN.: "Hadihi dár idáa Libia".
FORCES BROADCASTING STATION No. 1
ADDR.: No. 1 Forces Broadcasting Station, British Forces Post Office, 57, Tripoli. – STATION: 1484 kc/s 202 m 7.5 kW.
D. PRGR. in English: 05.30–07.30, 11.30–22.00. – ANN.: "This is the Forces Broadcasting Station Tripoli".
FORCES BROADCASTING STATION No. 5
ADDR.: British Forces P.O. 55, Benghazi.
Benghazi 836 kc/s 359 m 1 kW – 1484 kc/s 202 m 0.35 kW
D. PRGR. in English: 04.00–06.00, 10.30–14.00, 14.15–21.00.
ARMED FORCES RADIO & TV SERVICE: see U.S.A.

★ MADAGASCAR (French) ★

L.T: GMT+3 h L.: French, Malgache – Rcvrs.: 55.000
RADIODIFFUSION DE MADAGASCAR
ADDR.: B. P. 442 Tananarive – L.P.: Dir. Souchet. Dir. Tec. Leruste. Dir. French Prgr.: Guillon. Dir. Malgache Prgr.: Rabesahala. Dir. Journal Parlé: Lacarrieu.
HOME SERVICE:
French: Mo. – Fri. 03.30–05.30; 09.00–11.00; 15.00–19.00. Sat. 03.30–05.30; 09.00–19.30. Sun. 04.00–19.00.
1394 kc/s 215.20 m 1 kW – 7260 kc/s 41.32 m 4 kW – 9515 kc/s 31.50 m 4 kW – 5016 kc/s 59.80 m 4 kW.
Malgache: W. 03.30–05.00; 09.00–11.00; 15.00–18.00. Sun. 04.00–11.00; 15.00–18.00.
1502 kc/s 199.7 m 1 kW – 7155 kc/s 41.92 m 4 kW – 3386 kc/s 88.60 m 4 kW.
ANN.: "Ici Tananarive, Radiodiffusion de Madagascar" and "Voici notre émission de la journée diffusée sur les longueurs suivantes...".
INT.-SIG.: Malgache music. – V. by QSL-card.

★ MAURITIUS (British) ★

L.T.: GMT+4 h. – L.: French. – Rcvrs.: 25.845.
MAURITIUS BROADCASTING SERVICE (Go.)
ADDR.: Broadcasting House, Pasteur St., Forest Side. – L.P.: Mgr.: L. C. de Chazal. Dir. Tec.: C. N. Stansfield.
HOME SCE.:
1364 kc/s 220 m 5 kW: W. 03.00–04.15, 08.00–09.30, 13.00–17.30. Sun. 03.00–08.35. – 15062 kc/s 19.92 m 1.5 kW: W. 03.00–04.15, 08.00–09.30. Sun. 03.00–08.30.
French/English: W. 03.00–04.15, 14.30–17.30. Sun. 03.00–08.30. French: D. 08.00–09.30. Sun. 14.30–17.30. Hindustani: D. 13.00–14.30. N. in French: 03.30, 08.30, 15.00, 17.25. – N. in English: 04.00. – N. in Hindustani – Mbg. (for Mauritians Overseas): Sun. 07.20. – Wrp.: 08.35, 13.10. – Prgrs. in various other languages: Sun. 08.30–09.15. Mo. 13.00–13.30, Tues. Thurs. 09.30–10.15, Wed. 09.30–10.00.
ANN.: E.: "This is the Mauritius Broadcasting Service". F.: "Ici le M.B.S. poste de radiodiffusion de l'Ile Maurice". – V. by letter.

★ MOROCCO ★

L.T.: GMT. – L.: Arabic, French, Spanish. –Rcvrs.: 477.598. – 5 m.w.tr., 2 s.w.tr., 3 FM tr.
RADIODIFFUSION NATIONALE MAROCAINE (Go.)
ADDR.: 1, Rue Coli, Rabat. Cable: "Radio-Maroc". – L.P.: Dir. Gen.: Kacem Zhiri. Dir. Prgr.: Harici. Dir. Adm.: Benanni. Dir. Tec.: Berrada.
HOME SCE.:
ARABIC NETWORK: 06.45–09.00, 12.00–15.00, 17.00–24.00.

	kc/s	m	kW		kc/s	m	kW
Sebaa-Aioun	701	428	140	Sebaa-Aioun	5968	50.27	1
Casablanca	818	367	1	Tanger	15205	19.73	50
Oujda	818	367	1	Casablanca FM 96 mc/s			0.25
Rabat	827	363	1	Rabat FM	87.9	–	0.25
–	1043	288	1				

FRENCH NETWORK: W.: 06.45–08.30, 12.00–14.30, 18.30 (Sat. 17.30)–23.30 (Sat. 24.00). Sun. 07.30–15.00, 18.00–23.30.

Sebaa-Aioun	611	491	140	Sebaa-Aioun	6005	49.95	1
Casablanca	1187	253	1	Sebaa-Aioun	7214	41.59	1
Oujda	1187	253	1	Casablanca FM 90 mc/s			0.25
Rabat	1295	232	1	Rabat FM	92	–	0.25

N.: D.: 08.00(W), 08.15(Sun), 13.00, 14.25(W), 18.30(W), 20.00, 23.25.
THIRD NETWORK: in Berber, Spanish, English: 12.00–14.30, 18.00–19.00, 19.30–20.00.

Sebaa-Aioun	1016 kc/s	295 m	1 kW	12.45–13.00, 18.00–19.00 English.	
Rabat	1043 –	288 –	20 –	13.00–14.30 Berber	
Sebaa-Aioun	7214 –	41.59 –	1 –	12.00–12.45, 19.30–20.00 Spanish:	

FOREIGN SCE. in Arabic:
15280 kc/s 19.63 m: 12.30–14.30 – 15380 kc/s 19.51 m: 12.00–15.00.
ANN.: F.: "Ici Rabat, Radiodiffusion Nationale Marocaine". Ann. also in Arabic, Berber, E., Sp. – V. by letter and QSL-card. – F.PL.: 50 kW sw.tr. in 1959. – PUB.: Monthly journal in Arabic.
RADIO DERSA (Comm.)
ADDR.: Generalisimo Franco 15, Tetuan. – L.P.: Dir. Gen.: Conde de Marsal. Dir. Prgr.: J. Maestre. Dir. Adm.: A. de Molina. Dir. Tec.: M. Picardo.
HOME SCE.:
827 kc/s 363 m 20 kW: Spanish: 14.00–16.00, 19.30–23.30. – N.: 14.30, 22.00.
917 – 327 – 5 – : } Arabic: 13.00–15.00, 20.00–22.00. – N.:
6067 – 49.45 – 1 – : } 14.00, 21.00.
N.: Sp.: "Aqui Radio Dersa-Tetuán". – Arabic: "Huna Radio Dersa Tetuán". – V. by QSL-card.
ARMED FORCES RADIO TELEVISION SCE.: See USA

TANGIER

L.T.: GMT. – L.: French, Spanish, Arabic, English. – Rcvrs.: 12.500.

RADIO-AFRICA-MAGHREB (Comm.)
ADDR.: 9 rue de Russie, Tangier. – Cable: "Rafrica". – L.P.: Adm.: J. de Bournet. Dir. Gen.: L. Lartigau. Dir. Prgr.: G. Marquet. Dir. Press and Inf.: M. d'Hermy. Dir. Adm.: P. Joubert. Dir. Tec.: A. Koller. Secr. Prgr.: L. Arago. Arabic Dept:. M. Tazi. English Dept: E. Gifford. Spanish Dept.: C. Caravaca. Listeners Sce.: A. S. Roman.
HOME SERVICE: 935 kc/s 321.1 m 200 kW.
W.: 07.00–09.00, 11.45–15.30, 17.15–24.00. Sun.: 07.45–24.00.
English, French, Spanish: 07.00–09.00, 11.45–15.30, 19.45–22.00. – Arabic: 17.15–19.45, 22.00–24.00. – N. Commentary: Every half hour. – Wrp.: 08.10, 13.10, 20.10. – Request Prgr.: Sun.: 10.00–11.15.
ANN.: F.: "Ici Radio-Africa-Maghreb, émetteur de Tanger". E.: "This is Radio Africa Maghreb." – Sp.: "Aqui Radio Africa Maghreb". – INT.-SIG.: Bell. – V. by QSL-card. – PUB.: Monthly "Radio Africa".

RADIO-AFRICA-TANGER (Comm.)
ADDR.: 9 rue de Russie, Tanger. Cable: "Rafrica". – L.P.: Deputy Adm.: J. de Bournet. Gen. Secr.: M. J. Bironneau. Comm. Mgr.: P. Benoit. Chief Eng. Dept.: K. Horat. French Dept.: S. Collett. Arabic Dept.: M. Tchioua. Listeners Sce.: H. Blanco. Press and Inf.: T. Gomez.
HOME SERVICE: 593 kc/s 506 m 20 kW.
W.: 07.00–09.00, 11.45–15.30, 17.15–24.00. – English, French, Spanish: 13.45–15.30, 17.30–20.00, 21.00–24.00. – Arabic: 07.00–09.00, 11.45–13.45, 20.00–21.00.
ANN.: F.: "Ici Radio-Africa-Tanger". – Sp.: "Aqui Radio Africa Tanger". E.: "This is Radio Africa Tangier". – INT.-SIG.: Bell. – V. by QSL-card.

RADIO-INTER-AFRICA (Comm.)
ADDR.: 9 rue de Russie, Tangier. Cable: "Rafrica". – L.P.: Deputy Adm.: J. de Bournet. Gen. Mgr.: L. Lartigau. Dir. Prgr.: J. Tellez. Dir. Press and Inf.: P. Gimel. Dir. Adm.: J. Oger. Dir. Tec.: H. Berger. Secr. Prgr.: M. Martin. Arabic Dept.: A. Haras. Publicity Dept.: G. Beaudry.
SHORT WAVE SERVICE
For Europe: "Radio-Inter-Africa":
Stations: 15, 120, 120 kW: 9275 kc/s 32.35 m – 11458 kc/s 26.19 m – 14858 kc/s 20.20 m.
D. PRGR.: 12.00–15.00, 16.30– 23.00. – Prgr. in English, French, Finnish, German, Norwegian, Spanish, Swedish.
ANN.: E.: "This is Radio-Inter-Africa". – F.: "Ici Radio-Inter-Africa". Sp.: "Aqui Radio-Inter-Africa". – G.: "Hier ist Radio-Inter-Africa". V. by QSL-card. – R. p.

PAN AMERICAN RADIO, TANGIER (Comm.)
ADDR.: Pan American Broadcasting System. Studios: 16, rue Delacroix, Management: 7–9 rue Goya, Tangier. – Cable: Panamericana. – L.P.: Pres. Dir.: J. Suriñach Oller. Secr.: N. J. Anderson.
HOME SCE. in Spanish, Arabic:
1128 kc/s 266 m 5 kW: 09.00–01.00* – 7290 kc/s 41.15 m 3 kW: 09.00–01.00 – 14500 kc/s 20 m 3 kW: Not in use – 575 kc/s 522 m 5 kW: Not in use.
* Is planned to be increased to 50 kW.
Spanish: 09.00–16.30, 19.00–23.00. – N.: 09.05, 14.20 (local); 13.30 & 21.30 (R. Nac. de España), 14.00 (BBC), – Wrp.: 14.15, 21.12. – Arabic: 16.30–19.00, 23.00–01.00. – N.: 23.45 (Radiod. Nationale Marocaine). – T. S.: Every h.

PAN AMERICAN RADIO INTERCONTINENTAL
1594 kc/s 188 m.
Arabic: 16.30–19.00. – English: 19.00–20.00. – French: 20.00–21.00. – N.: 20.30. – Wrp.: 20.15.
ANN.: Sp.: "Aqui Pan American Radio, Tanger". – Arabic: "La Voz de Tanger, Marruecos". – E.: "This is Pan American Radio Intercontinental, Tangier". – F.: "Ici Pan American Radio Intercontinentale, Tanger". – INT.-SIG.: "Bim-Bam-Bum". – V. by QSL-card.

R. TANGER – COMMERCIAL BROADCASTER
Sociedad Africana de Radiodifusion.
ADDR.: 33, Goya Street, Tangier, Morocco. – Cable: "Radiointer". L.P.: Pres. of the Board: Antonio Garrigues. Secr. of the Board: Virgilio Onate. Man. Dir.: H. R. Southworth. Adm. Dir.: A. Cuetos-Martinez. Tec. Dir.: Jésus Martin Cordova. Dir. Arabic Section: Sidi Mustapha Abdullah. Dir. French Section: Jacques Hébrard.
STATIONS: R. Tanger 1232 kc/s 243.5 m 50 kW; 120 kW for No. Af. 6110 kc/s 49.10 m 2 kW.
French: 07.00–09.00, 11.30–16.00, 20.00–21.30. – N.: 07.15, 08.00, 08.50, 12.00, 13.00, 14.00, 15.00, 20.00, 21.20. – Arabic: 09.00–11.30, 17.30–20.00, 21.30–24.00. – N.: 10.00, 11.00, 17.45, 18.30, 19.55, 21.45, 22.30.
R. Tanger: 1079 kc/s 278 m 10 kW: Spanish: 10.00–11.30, 13.30–18.00, 18.30–24.00. – N.: 14.00, 21.00. – English: 18.00–18.30. – N.: 18.20. – Arabic: 11.30–13.30. – N.: 13.00.
Religious prgr's in French, English, Spanish on s.w. and m.w. and in 22 languages Mo. through Fri. on following wave bands: 19, 25, 31, 41 m.b. (10 kW), 49 m.b. (2 & 10 kW).
ANN.: F.: "Ici Radio Tanger". Sp.: "Aqui Radio Tánger". E.: "This is Radio Tangier". – Arabic: "Houna mahatatou Tangea". – V. by QSL-card or letter.

THE VOICE OF TANGIER (Missionary)
under the direction of International Evangelism, Inc., Greensboro, N.C., U.S.A. is a missionary radio station, dedicated exclusively to the broadcasting of the Gospel of our Lord and Saviour Jesus Christ and is maintained by free-will contributions.
ADDR.: The Voice of Tangier, P.O. Box 2219, Tangier, Morocco.
L.P.: Pres.: Rev. Paul Freed. Mgr.: Rev. P. J. Pietsch, Jr. Dir. Tec.: G. Preston.
D. PRGR.: 10 kW

	kc/s			kc/s	
English:	9436	D. 20.30–23.00	German:	9337	D. 20.00–20.30
Italian:	9327	D. 21.00–21.15	Russian:	9337	D. 19.00–19.30
Norwegian:	9337	D. 20.30–21.00	Hebrew:	9440	D. 18.00–19.00
			Spanish:	7230	D. 13.00–13.30

Portuguese: 7230 kc/s Sun. 14.00–14.30. Mo.–Wed. 13.30–13.45.
ANN.: E.: "This is the Voice of Tangier". – F.: "Ici la Voix Evangélique de Tanger". – G.: "Hier ist die Stimme von Tanger". – Sp.: "Esta es La Voz Evangelica en Tanger". – P.: "Esta e a Voz Evangelica de Tanger". – INT.-SIG.: Religious music. – V. by QSL-card and letter. – PUB.: Prgr. schedule twice a year. Will be sent by request.

VOICE OF AMERICA RADIO STATION IN TANGIER
ADDR.: Voice of America, Washington 25, D.C., U.S.A.
STATIONS: Tangier 35/50/100 kW: 02.00–08.30, 12.00–23.30.

kc/s	m	kc/s	m	kc/s	m	kc/s	m
9505	31.56	11890	25.23	15410	19.46	17840	16.82
9615	31.20	11900	25.21	17705	16.94	17845	16.81
9620	31.19	15190	19.75	17750	16.90	17850	16.81
11760	25.51	15225	19.70	17780	16.87	17855	16.80
11765	25.50	15295	19.61	17785	16.87	21455	13.98
11785	25.46	15340	19.56	17800	16.85	21680	13.84
11790	25.45	15380	19.51	17815	16.84	21705	13.82
11870	25.27	15405	19.47	17835	16.82	25880	11.60
11875	25.26						

D. PRGR.: Short Wave. See U.S.A.
ANN.: "This is the Voice of America Transmitter, Tangier".
INT.-SIG.: Choir of brass playing a 10 note version of "Columbia, the Gem of the Ocean". See U.S.A. – V. by QSL-card.

★ MOZAMBIQUE (Portuguese East Africa) ★

L.T.: GMT + 2 h. – L.:Portuguese, English, French, local dialects Afrikaans. – Rcvrs.: 36.167.

RADIO CLUBE DE MOÇAMBIQUE (Non-profit organization).
3 m.w.tr., 10 s.w.tr., 100 kW.
ADDR.: P.O. Box 594, Lourenço Marques· Cable: Radioclube. – L.P.: Dir. Gen.: Capt. António dos Santos Figueiredo. Mgr.: Capt. João Pinheiro. Dir. Tec.: V. Rodrigues. Chief Portuguese Prgr.: C. A. Teixeira. Chief English Prgr.: D. Davies.
STATIONS: 100, 10, 7.5, 5 kW alternating. Inactive: CR7BE 9654, CR7BY 3301.
PORTUGUESE NET.:
05.00–06.00, 09.30–11.30, 15.30–20.30 on 15152 kc/s (10/100 kW), 7211 kc/s (7.5 kW) and 737 kc/s (10 kW).
15.30–17.00 on 4840 kc/s (7.5 kW). 17.00–20.30 on 3250 kc/s (7.5 kW).

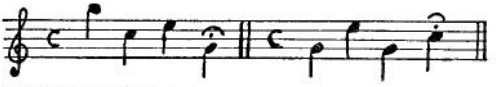
Call	kc/s	m	Call	kc/s	m
CR7BO	737	407	CR7BR	7211	41.60 d.
CR7BM	3250	92.31 d.	CR7BX	7238	41.45 d.
CR7AB	3406	88.08 d.	CR7BG	15152	19.80 d.
CR7BV	4840	61.98 d.			

N.: 10.30, 11.00, 18.00, 20.15. – Request: D. 15.35–17.00. Sat., Sun. 09.30–12.00. – Wrp.: 10.30, 16.30. – Prgrs. in French: Sun. 18.30–19.30 on 15152 kc/s. Native dialects: Sun. 07.00 09.00, 16.00 19.00 on 3406, 7238 kc/s.
ANN.: On the h.: 4 notes on gong followed by "Aqui Rádio Moçambique, fala-vos o Rádio Clube em Lourenço Marques, trabalhando nas ondas...". – V. by QSL-card.
ENGLISH NET.: Beamed to So. Af., Rhodesia, Nyasaland, Belgian Congo.

	kc/s	m	kW	
CR7BK	917	327	100	03.30–05.00, 15.30–21.00 (Sat. 22.00).
CR7BW	3221	93.13	7.5	d.: 15.30–21.00 (Sat. 22.00).
CR7BU	4925	60.91	7.5	d.: 15.00–21.00 (Sat. 22.00).
CR7AA	7250	41.37	7.5	d.: 03.30 (Sun. 04.50)–21.00.
CR7BJ	9616	31.19	7.5	d.: 05.00–16.00.
CR7BF	11770	25.49	5/100	d.: 03.30 (Sun. 04.50)–19.00.
CR7BD	15097	19.87	5/100	d.: 09.00–13.00.

Request: 05.00–06.00 (Sun. 06.30), 07.00–08.45 (Sun. 09.00), 10.00–11.00, 12.00–13.00, 14.00–16.15, 19.30–20.30.

ANN.: Every quarter-hour and half-hour 4 notes on gong followed by "Aqui Lourenço Marques, Radio Clube de Moçambique, trabalhando em ondas curtas e onda media. This is the Radio Clube of Moçambique – Lourenço Marques for Happy Listening in the... meter bands". – INT.-SIG.: Home and Foreign Sces.: Gong. – V. by QSL-card. – PUB.: Monthly: Radio-Moçambique.



BRANCH STATIONS: In Portuguese: 0.250 kW.
Nampula: 1223 kc/s 245 m – 4860 kc/s 61.73 m – 9640 kc/s 31.12 m. D.: 09.30–11.30, 16.30–19.30.
Zambezia: 935 kc/s 321 m – 4880 kc/s 61.48 m – 9621 kc/s 31.19 m. D.: 10.15–12.00, 16.30–19.30.

EMISSORA DO AERO CLUBE DA BEIRA (Pr. Comm.)
ADDR.: C. P. no. 3, Beira. – L.P.: Dir. Gen.: Dr. Oliva Monteiro. Dir. Adm. Prgr.: L. Rodrigues. Dir. Tec.: H. Ataide.
HOME SCE.:
1430 kc/s 210 m 5 kW – 3255 kc/s 92.15 m 0.3 kW.
4875 kc/s 61.54 m 0.3 kW – 5045 kc/s 59.46 m 0.3 kW
7255 kc/s 41.35 m 0.3 kW.
Mo.-Fri. 09.30–11.30. Sat. 09.30–12.00. Sun. 07.00–12.30 on all frequencies. On 1430, 3255 kc/s also D. 16.00–20.00. – N.: W. 10.00, 18.00. – Wrp. 18.15. – Nat. Music: W. 10.15, 16.15. Sun. 09.00, 16.00.
ANN.: "Radio-Moçambique–fala-vos a Emissora do Aero Clube da Beira". – INT.-SIG.: Two Chimes (do–1a). – V. by QSL-card. R. p. – F.PL.: SW.tr. 9758 kc/s 0.3 kW – 0.3 kW tr. increased to 1 kW.

RADIO PAX (Religious. Owned by Franciscan Fathers)
ADDR.: C.P. 594, Beira. – L.P.: Dir.: Father E. Costa. Dir. Tec.: Eng. E. Roca.
HOME SERVICE in Portuguese: W. 16.30–19.00, Sun: 05.45–07.00, 09.30–11.30, 16.00–19.00.
CR7RA 3952 kc/s 75.91 m 0.375 kW:
CR7RB 7205 – 41.64 – 0.05 – : Irregular.
ANN.: "Aqui Beira fala-vos Radio Pax, Emissora Catolica de Moçambique". – INT.-SIG.: 2–3 chimes. Prgr's open with a religious choir.

V. by letter. – F.PL.:
Increase of power to 10 kW

★ NIGER (French West Africa) ★

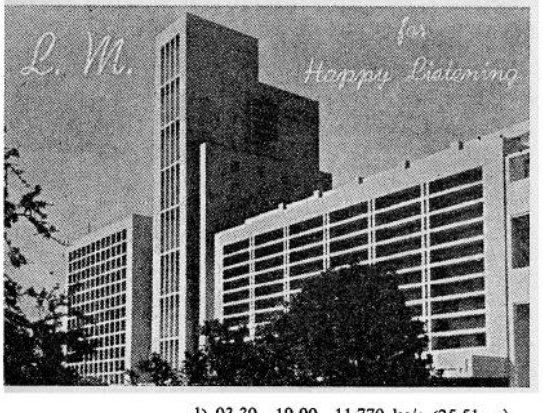
L.T.: GMT + 1 h. – L.: French. – Rcvrs.: 1000.

RADIO NIGER (Go.)
ADDR.: B. P. 361, Niamey, Niger. – L.P.: Dir. Gen.: P. Noël. 1511 kc/s 198 m 1 kW – 5020 kc/s 59.76 m 4 kW – 7105 kc/s 42.20 m 4 kW.
HOME SCE.: 18.30–22.30. – ANN.: "Ici Niamey, Radiodiffusion du Niger". – V. by letter.

★ NIGERIA (Federation of) ★

L.T.: GMT + 1 h. – L.: English, Vernaculars. – Rcvrs.: 63.000.

NIGERIAN BROADCASTING CORP. (Indep. Corp.)
ADDR.: Broadcasting House, Lagos. – Cable: "Broadcasts, Lagos".
L.P.: Dir. Gen.: J. A. C. Knott, OBE. Dir. Prgr.: Elwyn Evans. Dir. Adm.: J. G. C. Allen, CMG. Dir. Tec.: J. W. Murray.
NATIONAL PRGR. (from Lagos):
1458 kc/s 206 m 5 kW 04.55–08.00. 09.30–22.00 (Sat. 23.00) [1]
4990 – 60.12 – 20 – d. 04.55–08.00, 15.30–22.00 (Sat. 23.00). [2]
9655 – 31.07 – 5 – d. 09.30–16.45, (Sun. 08.00–16.45).
[1]) Sun. 05.55–21.55. [2]) Sun. 05.55–08.00, 15.30–21.55.
N. in English: 05.30 Mon.–Sat. 12.00 (Fri. 12.30) 14.00, 18.09, 21.00 – BBC – N.: 06.00, 07.00, 11.00, 13.00, 18.00. – BBC Commentary: 06.09.
N. in Hausa, Ibo, Yoruba: 12.15 (Fri. 12.45), 16.45 (Sat. 14.45) 12.15.
NORTH REG. PRGR.: (from Kaduna):
3326 kc/s 90.20 m 7.5 kW: 05.10–07.00, 18.00–22.00 (Sat. 23.00)
6175 kc/s 48.58 m 7.5 kW: 11.00–17.45.
KANO: 1376 kc/s 218 m 1 kW 05.10–07.00, 11.00–22.00 (Sat. 23.00).
WEST REG. PRGR.: (from Ibadan):
1358 kc/s 221 m 10 kW W.: 05.00–08.00, 09.30–22.00 (Sat. 23.00).
3995 – 75.09 – 5 – Sun. 06.00–21.55
7285 – 41.18 – 5 –
EAST REG. PRGR.: (from Enugu)
1320 kc/s 228 m 10 kW 05.00–08.00 (W), 11.00–22.00 (D), exp.
3965 – 75.67 – 2.5 – 05.30–08.00 (W), 16.15–22.00 (D).
6145 – 48.82 – 2.5 – 12.30 (Sun. 08.00)–16.00.
ANN.: Lagos: "This is the National Programme of the Nigerian Broadcasting Corporation". Kaduna: "This is the North Regional Programme of the Nigerian Broadcasting Corporation". – Enugu: "This is the East Regional Programme of the Nigerian Broadcasting



These are your

Lourenco Marques Radio

Wavebands for happy listening

[1]) 03.30—19.00 11.770 kc/s (25.51 m)
[2]) 05.00—16.00 9.616 kc/s (31.19 m)
[3]) 03.30—21.00 7.250 kc/s (41.37 m)
[4]) 09.00—13.00 15.097 kc/s (19.87 m)
[5]) 15.00—21.00 4.925 kc/s (60.91 m)
[6]) 15.30—21.00 3.221 kc/s (93.13 m)
[7]) 03.30—05.00, 15.30—21.00 917 kc/s (327 m)

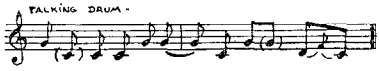
Transmitters 1, 3 and 5 open at 04.50 hours on Sundays.
Transmitters 5, 6 and 7 close down at 22.00 hours on Saturdays.

All times indicated are GMT.
NOTE: Subject to seasonal changes.

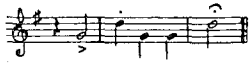
LOURENÇO MARQUES *For Happy Listening*

For full information see page 96.

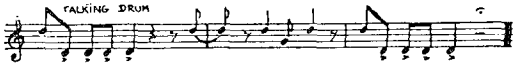
Corporation". – **Ibadan**: "This is the West Regional Programme of the Nigerian Broadcasting Corporation".
INT.-SIG.: National Prgr.: Talking Drum.



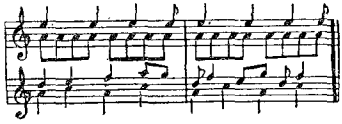
N. Reg.: Trumpet-Type Instrument.



W. Reg.: Talking Drum.



E. Reg.: Snakers Drum-Xylophone Bass.



V. by letter. – **PUB.**: Monthly: Nigerian Radio Times.

★ REUNION (French) ★

L.T.: GMT + 4 h. – L.: French. – Rcvrs.: 12.000.
RADIO REUNION (Go.)
ADDR.: B. P. 309, St. Denis. – **L.P.**: Chef des Services: J. Billaud.
HOME SERVICE: 620 kc/s 484 m 1 kW – 3380 kc/s 88.76 m 1.5 kW.
W.: 02.30–03.45, 08.00–09.30, 14.00–18.00 or 19.00. **Sun.**: 04.00–10.30, 14.00–18.00 or 04.00–18.00.
N.: W.: 02.30, 03.30, 08.30, 14.07, 16.30. Sun.: 04.15, 08.30, 16.45. – **Comm.**: Sat. 08.45. – **Request Prgr.**: Thurs. 14.15–15.15. Sun. 14.00–15.00. – **Wrp.**: W. 03.30, 14.15, 16.30. Sun. 04.15, 14.00, 16.45.
ANN.: "Ici la Réunion, Radiodiffusion Française". – V. by letter. R.p.

★ RHODESIA ★

L.T.: GMT + 2 h. – L.: English, Vernaculars. – Rcvrs.: 90.000.
THE FEDERAL BROADCASTING CORPORATION OF RHODESIA & NYASALAND (Indep. Statutory Corpo.)
ADDR.: Travlos House, Stanley Avenue, Salisbury, So. Rhodesia. – **L.P.**: Chairman of Board: The Hon. Sir. R. Hudson. Dir. Gen.: J. Mc. Clurg. Contr. Adm.: C. K. Grierson Rickford. Contr. English Sce.: J. H. Parry. Contr. African Sce.: C. Sapseid. Dir. Tec.: J. M. Reeves.
HOME SCE.: **English Sce.**: W.: 07.00–12.00, 15.00–20.30 (Sat. 13.00–21.30). Sun. 08.00–12.00, 15.00–20.00.

Medium Waves

	kc/s	m	kW		kc/s	m	kW
Salisbury	584	514	2	Kitwe	890	337	20
Bulawayo	611	491	2	Lusaka	962	312	2
Que Que	746	402	0.075	Umtali	980	306	2
Gatooma	791	379	2	Gwelo	1043	288	2

Short Waves

Salisbury	3396	88.36	15	Lusaka	7323	40.96	10
Lusaka	4911	61.08	10	Salisbury	9505	31.56	0.3
Salisbury	6018	49.84	15	Lusaka	11822	25.38	10

N.: 06.00 (Sun.), 09.00, 11.00, 18.00. – **Wrp.** 18.20.
African Sce. (from Lusaka): 04.00–06.00, 10.00–19.00.

kc/s	m	kW	
1376	218	2	04.00–06.00, 10.00–19.00
3914	76.16	2.5	04.00–06.00, 16.00–19.00
4826	62.16	15	04.00–06.00, 15.00–19.00
7170	41.84	2.5	10.00–19.00
9710	30.90	2.5	10.00–15.30

A Prgr.: English & Vernaculars (Chibemba, Chishona, Chinyanja, Silozi, Sindebele, Chitonga, Chilunda, Luvale).
English: W.: 04.00–06.00, 18.00–19.00. Sun. 09.00–19.00. – **N.**: 18.00.
N. in Vernaculars: 15.45. – **Wrp.**: 16.20.
B. Prgr.: Vernaculars only: 15.00–19.00 on 4826 kc/s.
ANN.: English Sce.: "This is the Federal Broadcasting Corporation of Rhodesia and Nyasaland". African Sce.: "This is the Federal Broadcasting Corporation of Rhodesia and Nyasaland's African Sce." "This is Lusaka". "Kuno ndi Lusaka".
INT.-SIG.: African Sce.: Kalimba Xylophone 17.58 **D.** – **V.**: Listeners reports within the Federation required. – **F.PL.**: sw. st. in midlands of So. Rhodesia, which evt. will incorporate English, Commercial and African Services.

★ SAO TOMÉ E PRINCIPE (Port W.Africa) ★

L.T.: GMT. – L.: Portuguese.
R. CLUBE DE SAO TOMÉ (Comm.), S. Tomé.
HOME SCE.: 4807 kc/s 62.41 m 1 kW.: 19.00–21.00.

★ SEYCHELLES (British) ★

L.T.: *GMT + 4 h.* – L.: *English, French, Creole.* – Rcvrs.: *150.*
SEYCHELLES BROADCASTING SERVICE (Go.)
ADDR.: Education Department, Victoria, Mahé, Seychelles.
L.P.: Director of Education: G. I. Michael. Technical Sce.: – Cable and Wireless Ltd.
HOME SERVICE: ZCQ3 4990 kc/s 60.12 m 0.04 kW: D. 15.15–16.15.

★ SENEGAL (French West Africa) ★

L.T.: GMT – L.: French, Peulh, Ouolof, Sérére, Diola, Toucouleur, Sarakholé, Manding. – Rcvrs.: 100.000.
RADIODIFFUSION DE L'AOF (Go.)
ADDR.: B. P. 9, Dakar.
HOME SCE.:
FEDERAL NETWORK: W.: 06.30–08.00, 12.00–14.00, 17.30–23.30. Sun.: 08.00–23.30.

1538 kc/s	195.1 m	10 kW		7210 kc/s	41.61 m	4/25 kW	
4950 –	60.60 –	4 –	*)	9562 –	31.37 –	25 –	d.
5960 –	50.34 –	25 –		11895 –	25.22 –	25 –	d.

*) from 22.30.
N.: French: 06.45(W), 07.40(W), 08.00 (Sun.), 13.00, 20.00, 22.15. – **Prgrs. in Vernaculars**: W.: 17.30–19.03 (Sat. 18.00, on 5960 & 11895 kc/s only). –
REGIONAL NETWORK:
1304 kc/s 230 m 4 kW: 07.00–09.00, 12.30–14.00, 18.00–23.00.
4893 – 61.32 – 4 – : 07.00–09.00, 18.00–23.00.
7171 – 41.84 – 4 – : 12.30–14.00.
N. in French: 07.30(W), 08.45(Sun.), 13.20, 20.00, 22.15 (Sun.), 22.30 (W). – **Prgr. in Vernaculars**: W.: 18.00–19.55, Sun. 14.00–16.55. – **Nat. music**: 18.00–18.15 (African). – **Mbg.**: Sun.: 11.30–11.45. – **Request Prgr.**: Sun. 10.00–11.00.
FOREIGN SCE.: on 1538, 4950 kc/s.
N. in English: Tues., Thurs., Sat. 22.30–22.40. – **N. in Portuguese**: Mo., Wed., Fri. 22.30–22.40.
ANN.: F.: "Ici Dakar, Radiodiffusion Fédérale de l'Afrique Occidentale Française. Programme chaîne Fédéral... ou Radio Dakar émettant sur..." – E.: "Here is Dakar, Federal Network, Station of West African Broadcasting Corporation". – P.: "Aqui Dakar, Fédéral Radiodiffusion de l'Africa Occidental Francesa". – **INT.SIG. Federal**: Infanterie de Marine. – **Regional**: Sidi Brahim. – V. by QSL-card. R.p.
RADIO SENEGAL (Go.)
ADDR.: B. P. 376, St. Louis du Sénégal, Sénégal. – **L.P.**: Dir. Gen.: A. Sy Papa.
HOME SCE.: 1349 kc/s 222 m 1 kW.
W.: 06.44–08.00, 12.00–13.30, 18.00–22.00. Sun.: 06.44–10.00, 12.30–16.00, 19.00–22.00.

SHORT WAVE MAGAZINE

(Established 1937)

One of the world's leading Amateur Radio publications covering transmission, reception, operating results, competitive working, design and construction. Regular features include "DX Commentary" and "VHF Bands", outstanding in their fields. Monthly, 56 pages. Subscription 33s. post free. 34 Danish Kr., 5.00 American dollars, 21.45 Swiss francs, 1650 French francs, 20 German Dm., 2885 Italian lire.

SHORT WAVE MAGAZINE LTD.,
55, Victoria Street, London S.W.1, England.

N.: **French:** D. 07.00, 08.30 (Sun.), 13.00, 20.00. **Prgrs. in Toucouleur, Ouolofi:** 07.30–08.00, 12.30 (or 12.02)–13.00, 18.02–19.18, – **Request prgr.:** Sun. 09.00.
ANN.: "Ici Saint-Louis Radiodiffusion de la France d'Outre-Mer. Station du Sénégal". – **INT.-SIG.:** Three notes trumpet and march: "C'est nous les africains". – V. by QSL-card. R. p.
RADIO MAURITANIE (Go.)
ADDR.: B. P. 376, Saint Louis, Sénégal. – **L.P.:** Dir.: P. Conrath. Dir. Prgr.: V. Clevet. Dir. Tec.: N. Eterradossi. Dir. Press.: G. Darmagnac.
HOME SCE.: 20.00–23.00. – N.: **French:** 22.15–22.30.
1433 kc/s 209 m 1 kW – 6045 kc/s 49.63 m 4 kW.
ANN.: "Ici la Voix de la Mauritanie" in F., Maure, Arabic. – V. by QSL-card. R. p.

★ SIERRA LEONE (British West Afrika) ★

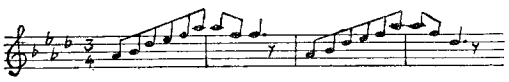
L.T.: GMT. – L.: English, Mende, Temne, Creole. – **Rcvrs.:** 6500·
SIERRA LEONE BROADCASTING SERVICE (Go.)
ADDR.: New England, Freetown. – **L.P.:** Dir.: L. A. Perowne, Head of Prgr.: J. J. Akar. Dir. Tec.: I. C. Griggs.
HOME SCE.: 3316 kc/s 90.46 m 5 kW.
06.45–08.00, 16.45–22.00. – N. **English:** BBC 07.00, 18.00, 20.00. – **Local N.:** 06.45, 20.10. – N. **in Vernaculars:** 06.50, 19.30. – **African Music:** Mo. 07.30–08.00, 19.00–19.30, Wed., Fri.: 21.30–22.00.
ANN.: "This is the Sierra Leone Broadcasting Service". – **INT.-SIG.:** "The rain is coming" played by Military Band. – V. by letter. – **F.PL.:** 10 kW. sw.–tr., 0.5 kW m.w.-tr. 1960. – **PUB.:** Weekly bulletin published by Information Dept.

★ SOMALILAND (British) ★

L.T.: GMT + 3 h. – L.: Somali. – **Rcvrs.:** 2.000.
RADIO SOMALI (Go.)
ADDR.: P.O. Box 14, Hargeisa. – **Cable:** Informat. – **L.P.:** Inf. Officer: J. M. Webber. Asst.: A. A. Farah. Prgr.: M. Hashi.
HOME SCE.: 4765 kc/s 62.97 m 5 kW – 9667 kc/s 31.04 m 1 kW: 13.30–16.15. – **Somali:** 13.30–15.15. N.: 14.15. **Mbg.:** Sat. 13.40. – **English:** 15.15–16.15. N.: 16.00.
ANN.: "Halkun Waa, Radio Somali (This is R. Somali). – **INT.SIG.:** March. – V. Reports only from Somali – speaking audience. Printed acknowledgement sent.

★ SOMALILAND (French) ★

L.T.: GMT + 3 h. – L.: French, Somali, Afar, Arabic. – **Rcvrs.:** 5.000.
RADIO DJIBOUTI (Go.)
ADDR.: B. P. 97, Djibouti. – **L.P.:** Dir.: P. Farinés.
HOME SCE.:
1538 kc/s 195 m 1 kW – 4780 kc/s 62.76 m 1 kW – 6000 kc/s 50.00 m 4 kW.
03.30–04.30 on 1538, 4780 kc/s.: **Vernaculars:** 03.30–04.00. – **French:** 04.00–04.30. N.: 04.15.
08.30–10.00 on 1538, 6000 kc/s.: **Vernaculars:** 09.40–10.00. **French:** 08.30–09.40. N.: 09.15.
15.00–19.00 on 1538, 4780 kc/s.: **Vernaculars:** 15.00–17.00. **French:** 17.00–19.00. N.: 17.15.
ANN.: "Ici Djibouti, Radiodiffusion de la France d'Outre-Mer". – **INT.-SIG.:** Extrait d'une mélodie Somalie. – V. by letter. R. p.



★ SOMALILAND (Italian) ★

L.T.: GMT + 3 h. – L.: Somali, Italian. – **Rcvrs.:** 21.000.
RADIO MOGADISCIO (Go.)
ADDR.: Comando Base della Marina in Somalia, Direzione Sviluppo Economico Telecomunicazioni, Mogadiscio.
HOME SCE.: 7072 kc/s 42.42 m 4 kW. – **Somali:** 09.30–10.00, 13.00–15.00, 16.00–17.00. **Italian:** 10.00–10.45, 17.00–18.00. N.: 17.15.
ANN.: I.: "Trasmette Mogadiscio".

★ SUDAN ★

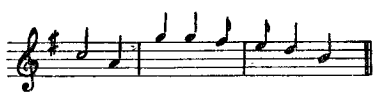
L.T.: GMT+2 h. – L.: Arabic, English. – **Rcvrs.:** 7.000.
SUDAN BROADCASTING SERVICE (Go.)
ADDR.: P.O. Box 522, Khartoum. – **Cable:** "Irshad".
HOME SCE.: 572 kc/s 524.0 m 50 kW – 6200 kc/s 48.39 m 0.35 kW – 5008 kc/s 59.92 m 6 kW.
Arabic: D.: 04.15–06.30, 12.15–13.15, 14.30–21.30. **Additional:** Fri.: 07.30–09.30. Sun. 08.00–09.00. N.: 04.30, 16.40, 19.10. **English:** D. 16.00–16.30. N.: 16.00.
ANN.: **Arabic:** "Huna Omdurman". E.: "This is the Sudan Broadcasting Service". – V. by letter.

★ SUDAN (French) ★

L.T.: GMT. – L.: French, Vernaculars. – **Rcvrs.:** 3.000.
RADIO SOUDAN (Go.)
ADDR.: B. P. 171, Bamako.
L.P.: Dir. Gen.: J. Chabanel. Dir. Prgr.: M. Talla. Dir. Adm.: S. Ibrahima. Dir. Tec.: M. N. Diaye.
HOME SCE. **in French, Bambara:**
1430 kc 210 m 1 kW – 4835 kc 62.05 m 4 kW – 9745 kc 30.80 m 4 kW
W.: 06.30–07.15, 12.15–13.15, 19.00–21.30. **Sun.:** 07.45–09.00, 10.45–17.00, 19.45–22.00. – N.: **French:** 19.00–19.15. 20.00–20.45. – **Bambara:** 19.20–19.45.
ANN.: "Ici Bamako Radio Soudan émettant sur ———".

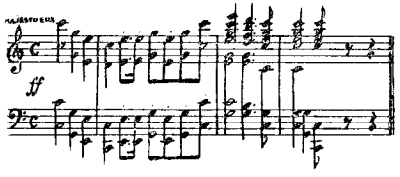
★ TANGANYIKA (British) ★

L.T.: GMT + 3 h. – L.: English, Kiswahili. – **Rcvrs.:** 20.000.
TANGANYIKA BROADCASTING CORP. (Indep.-Comm.)
ADDR.: Broadcasting House, Box 1649, Dar-Es-Salaam. **Cable:** "Sauti". – **L.P.:** Dir. Gen.: T. W. Chalmers, C.B.E., B. Sc. Dir. Prgrs.: C. W. W. Ryan. Chief. Eng.: R. A. Muir. Swahili Prgr. Organiser: D. Swannie, M.B.E.
HOME SCE.: 1250 kc/s 240 m 21.3 kW – 5050 kc/s 59.41 m 20 kW. 7167 kc/s 41.86 m 5 kW.
English: 18.00–19.30, N.: 18.00 (BBC), 18.15. – **Kiswahili:** 03.15–05.00, 14.30–18.00. N.: 15.45 (BBC), 17.00. – **Wrp.:** D. 18.15.
ANN.: **Kiswahili:** "Hii ni Sauti ya Tanganyika". E.: "This is the Tanganyika Broadcasting Corporation". – **INT.-SIG.:** Guitar or Bells. – V. by letter. – **PUB.:** Monthly bulletin in Kiswahili. – **F.PL.:** A 10 kW s.w. tr. and a 1.3 kW m.w. tr. medio 1959. Freq. not yet allotted. Alternative prgrs. in English and Kiswahili. H. of tr. will be increased during the next 12 months to a max. of $10^1/_2$ h. pr. day pr. network.



★ TOGO (French) ★

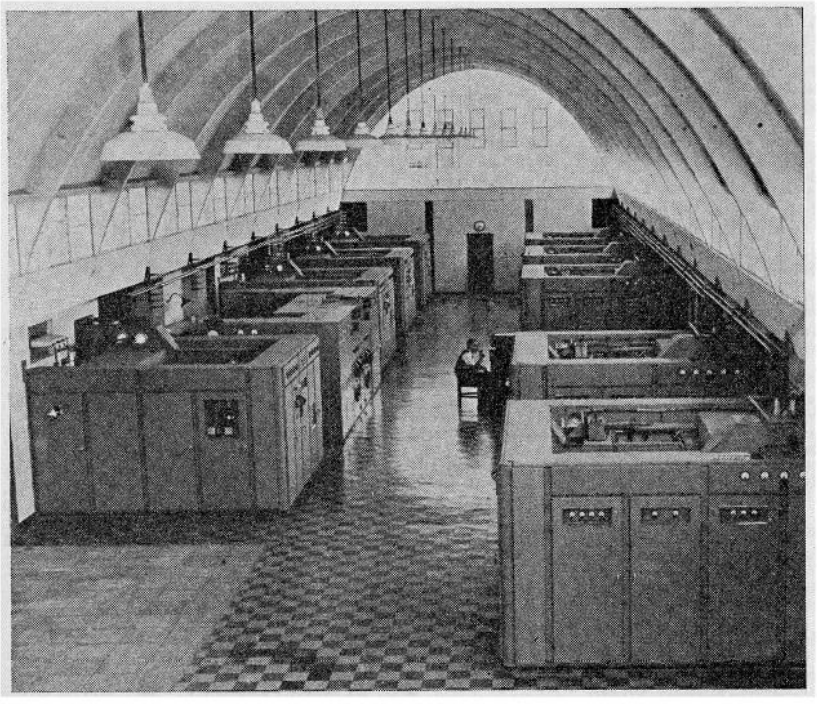
L.T.: GMT. – L.: French, Ewe, Cabrais, Cotocolis, Bassari.
RADIO LOME (Go.)
ADDR.: Radiodiffusion du Togo, B.P. 434, Lomé. –
HOME SERVICE in **French** and **Vernaculars:**
1394 kc/s 215 m 1 kW 5036 kc/s 59.57 m 4 kW 7265 kc/s 41.29 m 4 kW
W.: 06.00–08.00. D.: 18.00–22.00 on 1394, 5036 kc/s.
W.: 12.00–13.30. Sun.: 07.45–14.00 on 1394, 7265 kc/s.
Nat. music: 06.00–06.30, 06.45–07.58, 12.00–12.15, 12.30–13.30, 19.20–19.30, 20.30–20.45, 21.00–22.00. – N.: 06.30, 12.15, 18.00, 19.30, 20.45. – **Wrp.:** 07.58, 19.17.
INT.-SIG.:



ANN.: "Ici Lomé Radiodiffusion du Togo". At opening and close down: Hymne Togolais.

★ TUNISIA ★

L.T.: GMT+1 h. – L.: Arabic. – **Rcvrs.:** 145.000.
RADIODIFFUSION TELEVISION TUNISIENNE (Go.)
ADDR.: 139 Av. de Paris, Tunis. – **L.P.:** Dir. Gen.: C. Klibi. Dir. Adm.: M. Fitouri. Dir. Tec.: Guyot Bernard. Dir. For. Rel.: M. Shemma.
HOME SERVICE:
Arabic Network:
Tunis I 629 kc/s 477 m 20 kW – Sfax II 584 kc/s 514 m 1 kW
05.30–07.30, 11.30–13.00, 17.30–22.00. N.: 05.45, 12.15, 18.00, 19.00, 21.00, 22.00. – **Commentaries:** 19.30. – **Mbg.:** Sun. 09.30–10.00.
French Network:
Tunis II 962 kc/s 312 m 120 kW – Sfax I 1421 kc/s 211 m 0.05 kW
05.30–07.15, 11.00–13.00, 17.00–21.45. – N.: 06.00, 07.00, 12.00, 18.45, 21.30.
ANN.: **Arabic:** "Huna al ida' a att Tunissia". – **French:** "Ici Radio Tunisienne". – V. by letter. – **F.PL.:** From April 1959: Tunis I will be increased to 100 kW. 1 s.w. tr. in the 16, 25 and 49 meter bands; exact frequencies from April 1959.



The transmitter hall at "PARADYS"

"PARADYS"

The SABC's national shortwave transmitting station

EUROPE up to the boundaries of the Soviet Union covers some two million square miles; and here where civilisation was born, grew and matured, 400 million people are served by a host of broadcasting stations in the hands of many public and private concerns. Far away at the foot of Africa in an area almost half as large as Europe itself, the South African Broadcasting Corporation must bring the benefits of western culture and the best in the world of entertainment to listeners scattered in this vast domain.

The challenge has been met in two ways. The cities and their environs are served by 12 medium-wave stations. At each centre three powerful transmitters radiate the three national programmes – the ENGLISH, AFRIKAANS and COMMERCIAL SERVICES. But there has always been the additional problem of bringing really good reception to listeners on lonely farms, in villages nestling under the flat-topped koppies, and at distant outposts. And so the SABC has ploughed half-a-million pounds into 400 acres of farmland 12 miles to the south of Bloemfontein.

On this farm with the romantic name "PARADYS" ("Paradise" in Afrikaans) nine modern shortwave transmitters have been installed, and each may be connected to any of the 18 antennas for the national services.

But listeners outside the Union have not been forgotten, and seven special antennas have been built to carry the SABC's AFRICA SERVICE. Intended primarily for our friends on this continent, the service may be heard in many other parts of the world. It is indeed your portal to the culture, entertainment and information of a continent that throbs with the progress of a virile civilisation.

★ UGANDA (British) ★

L.T.: GMT+3 h. – **L.:** English, Vernaculars. – **Rcvrs.:** 62.000.
UGANDA BROADCASTING SERVICE (Go.)
ADDR.: P.O. Box 142, Kampala. **Cable:** Knowledge. – **L.P.:** Dir. Inf.: A. G. Ridley, M.V.O. Dir. Prgr.: J. Kenyon. Dir. Tec.: A. Stephenson, Assoc. I.E.E.
HOME SERVICE: S.w. 7.5 kW. M.w. 0.5 kW.
5026 kc/s 59.7 m d. – 7110 kc/s 42.19 m d. – 9590 kc/s 31.28 m d.
548 – 547.5 – – 971 – 309 –
Daily up to 14.00 on 9590 kc/s. Daily from 14.15 on 5026 kc/s.
English: D. 17.30–19.30. Sun. also 07.00–08.00. **N.:** 18.00 (BBC). – **Wrp.:** 17.40. – **Vernaculars:** D. 12.30 (Sat., Sun. 11.00)–14.00; 14.15–17.30 in Luganda, Runyoro, Lwo, Ateso. Sun. also 08.00–10.30 in Runyankore, Lugbara. – **Hindustani:** Sun. 10.30–11.00.
ANN.: E.: "This is the Uganda Broadcasting Service, Kampala". – **Luganda:** "Eno ye Uganda Broadcasting Service, Kampala". – **Lwo:** "Man en aye Uganda Broadcasting Service, Kampala". – **Ateso:** "Ne nges Uganda Broadcasting Service, Kampala". – **Runyoro:** "Enu niyo Uganda Broadcasting Service, Kampala". – **V.** by QSL-card. – **F.PL.:** Duplicate transmissions providing powerful M.W. tr. for major population areas and S.W. for remoter areas. Approx. 1960.

★ UNION OF SOUTH AFRICA ★

L.T.: GMT+2 h. – **L.:** English, Afrikaans. – **Rcvrs.:** 800.000.
S. AFRICAN BROADCASTING CORPORATION (go.)
ADDR.: P.O. Box 8606, Johannesburg. **Cable:** Broadcast.
L.P.: Chairman of the Board of Governors: Dr. S. H. Pellissier. Vice-Chairman: Mr. W. J. Lamb. Dir. Gen.: Gideon Roos. Deputy Director-General: N. L. Filmer. Secr.: J. P. A. van der Walt. Chief Engineer: H. O. Collett. Chief Accountant: R. C. Strike. Head English Sce:. Miss G. N. Dickson. Head of Afrikaans Sce.: M. M. van Lille. Head of Comm. Sce. (Springbok Radio): B. S. Louw. Head of News: A. M. van Schoor.
AFRICA SERVICE: International St. at "PARADYS" near Bloemfontein, O. F. S.:
15200 kc 19.73 – 25800 kc 11.63 m: 11.00–18.00.
English Sce.: Tues., Thurs., Sat. – **Afrikaans Sce.:** Mo., Wed., Fri., Sun.
HOME SERVICES
National Shortwave Station at "PARADYS":

ENGLISH SCE.		AFRIKAANS SCE.		COMM. SCE.	
3316 kc/s	90.47 m	3376 kc/s	88.89 m	3356 kc/s	89.42 m
4810 kc/s	62.37 m	4895 kc/s	61.29 m	4945 kc/s	60.67 m
7229 kc/s	41.50 m	7275 kc/s	41.25 m	7295 kc/s	41.12 m
9680 kc/s	30.99 m	9523 kc/s	31.50 m	9720 kc/s	30.86 m
11900 kc/s	25.21 m	11840 kc/s	25.34 m	11937 kc/s	25.14 m
15280 kc/s	19.63 m	15110 kc/s	19.85 m	15200 kc/s	19.73 m

Shortwave schedules for the Home Services are determined by ionospheric conditions. The table below gives the approximate times of use for the various wavebands:

03.00–04.30	90, 60, 41	05.00–07.00	41, 31, 25	11.00–16.00	31, 25
04.30–05.00	60, 41, 31	07.00–11.00	31, 25, 19	16.00–16.30	41, 31
				16.30–22.00	60, 41

National Medium-Wave Stations:

	ENGLISH SCE.	AFRIKAANS SCE.	COMM. SCE.
Johannesburg:			
West Rand	638 kc 470 m	719 kc 417 m	575 kc 522 m
East Rand	1034 kc 290 m	827 kc 363 m	1286 kc 233 m
Pretoria	1439 kc 208 m	1097 kc 273 m	1268 kc 236 m
Bloemfontein	674 kc 445 m	593 kc 506 m	782 kc 384 m
Kimberley	1070 kc 280 m	1241 kc 242 m	962 kc 312 m
Grahamstown	620 kc 484 m	701 kc 428 m	809 kc 371 m
Port Elizabeth	1313 kc 228 m	1043 kc 288 m	1178 kc 255 m
East London	1025 kc 293 m	1151 kc 261 m	908 kc 330 m
Cape Town	656 kc 457 m	557 kc 539 m	728 kc 412 m
Durban	566 kc 530 m	692 kc 433 m	800 kc 375 m
Pietermaritzburg	764 kc 392 m	665 kc 451 m	845 kc 355 m
Pietersburg	1115 kc 269 m	863 kc 348 m	989 kc 303 m

D.PRGR. English and Afrikaans Services:
W.: 04.30–21.15. Sun.: 05.30–21.15.
N.: 05.00 (W), 06.00, 11.15, 16.00, 17.00 (W), 19.00, 21.00.
D.PRGR.: Commercial Service (Springbok Radio):
W.: 03.00–22.00 Sun.: 05.00–21.00.
V. by QSL-card for all Services. – **PUB.:** "SABC Radio Bulletin".

★ ZANZIBAR (British) ★

L.T.: GMT+3 h. – **L.** Kiswahili. – **Rcvrs.:** 3.500.
VOICE OF ZANZIBAR (Go.)
ADDR.: Sauti ya Unguja, P.O. Box 222, Zanzibar. **Cable:** Information. – **L.P.:** Information Officer, Senior Commissioner: J. D. Stringer. Sheik Yahya Alawi El-Yafei. Dir. Tec.: B. C. Normann.
HOME SCE.: Kiswahili; occasional items in English, Arabic, Hindustani.

600 kc/s 500 m 0.25 kW } 10.25–11.30, 13.00–17.00.
6005 – 49.96 – 3.5 – d.}
4795 – 62.54 – 0.25 – Special service only.
N.: 10.25, 13.10, 15.45, Swahili rebroadc. BBC.
ANN.: Kiswahili: "Hi ni Sauti ya Unguja". **Arabic:** "Hadha Saut Zinjibar." **English:** "This is Zanzibar calling on 49.96 and 500 metres." – **INT.-SIG.:** 8 note chords. – **V.:** DX results only possible on very infrequent special transmissions on 4797 kc/s. Reports are not solicited but if confirmed are answered by letter. R.p. – **PUB.:** Weekly prgr. sched. Internal Circulation.

★ ADEN (British) ★

L.T.: GMT+3 h. – **L.:** Arabic, English. – **Rcvrs.:** 50.000.
ADEN BROADCASTING SERVICE (Go.)
ADDR.: P.O. Box 1264, Aden. **Cable:** Informat. – **L.P.:** Dir. Gen.: N. J. Watt. Dir. Prgr.: A. Zokari. Dir. Tec.: D. A. Import.
HOME SCE. in Arabic: 11.00–20.30.
800 kc/s 375 m 5 kW – 7170 kc/s 41.84 m 7.5 kW d.
N.: 12.00, 14.00, 15.30, 17.00, 17.45. **Relay BBC:** 18.00, 19.15, 20.15. – **Mbg.:** Thurs. 13.10.
ANN.: "Huna Adan" (This is Aden) or "Mahatatu Adan Lil i Da'a". (This is the Aden Broadcasting Service). – **V.** by QSL-card or letter. R.p. preferred. – **F.PL.:** New 7½ kW s.w. tr. in the 49 m band approx. April 1959. – **Prgr. sched.** free on request.
ADEN FORCES BROADCASTING ASSOCIATION (Mil.)
ADDR.: R. A. F. Station, Khormaksar, Aden. – **L.P.:** Mgr.: L. Brunt, c/o RAF School. – 1025 kc/s 293 m 0.3 kW: 06.00–07.00, 16.45–20.00.

★ AFGHANISTAN ★

L.T.: GMT+4½ h. – **L.:** Pushto, English. – **Rcvrs.:** 12.000.
AFGHAN BROADCASTING SYSTEM (Go.)
ADDR.: Telecommunications Division, Ministry of Communications, Kabul. – **Cable:** Aftel. – **L.P.:** Dir. Gen.: M. Benewa. Dir. Tec.: Sultani.
HOME SERVICE
660 kc/s 454.5 m 20 kW: 02.30–03.30, 12.30–18.00.
6005 kc/s. 49.96 m: rel. 660 kc/s.: 12.30–18.00.
18640 kc/s 16.09 m rel. 660 kc/s: 14.55–17.30.
English: 16.40–17.00. – **Urdu Prgr.:** 16.20–16.30. – **Persian Prgr.:** 17.00–17.15.
ANN.: Pushto: "Da Kabul dai". – **INT.-SIG.:** A record on national flute. – **V.** by letter.

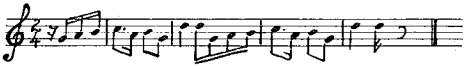
★ BAHRAIN ★

L.T.:GMT+4 h. – **L.** :Arabic. – **Rcvrs.:** 5000.
BAHRAIN BROADCASTING STATION (Go.)
ADDR.: Department of Public Relations and Broadcasting, Manama, Bahrain, Persian Gulf. – **L.P.:** Government Public Relations Officer H. D. Belgrave. Dir. of Broadc.: I. Kanoo. Dir. Tec.: A. Attallah.
HOME SCE.: 610 kc 491.8 m 2 kW: D. 15.30–18.30. Fri. also 04.30–06.30. – **N.:** D. 17.30. – **Mbg.:** Tues. 17.00–17.10. – **Wrp.:** 17.45. – **L.L. in English:** Sun. 17.00–17.15, Wed. 16.10–16.25. Fri. 05.00–05.15.
ANN.: Arabic: "Huna Bahrain, Il-Iza'a Al- Bahrainia Al-Lasilkia". **E.:** "Here is Bahrain. The Bahrain Broadcasting Station". – **V.** by letter. – **PUB.:** Weekly "Bahrain Calling" in Arabic. Write for copy.

★ CYPRUS (British) ★

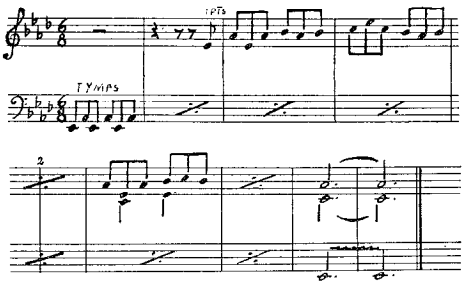
L.T.: GMT+2 h. – **L.:** English, Greek, Turkish. – **Rcvrs.:** 95.000.
CYPRUS BROADCASTING SERVICE (Go.)
ADDR.: P.O. Box 824, Nicosia. **Cable:** "Broadcasts", Nicosia. – **L.P.:** Dir.: J. R. C. Proud, CBE, VRD. Dir. Tec.: A. D. Belle. Controller Adm.: G. C. Wilkinson.
HOME SCE:
GREEK PRGR.:
Nicosia 692 kc 434 m 20 kW – Paphos 915 kc 326 m 2 kW W. 04.30–06.00, 10.30–12.30, Sun. 05.00–12.30 combined **Greek, Turkish, English** prgrs.; 15.00–20.00 Greek. – **N. in Greek:** 05.15*(W), 06.00*(Sun.), 12.00, 17.00* (May-Oct. 18.00*), 19.50. – **Mbg.:** D. 17.30. **Request:** Tues. 16.00 (Folk Music), Fri. 19.00 (classical), Sat. 16.00 (Friends across the Sea).
TURKISH PRGR:
Nicosia 606 kc 495 m 20 kW – Limassol 900 kc 333 m 0.3 kW W. 04.30–06.00, 10.30–12.30, Sun. 05.00–12.30 combined **Turkish, Greek, English** prgrs.; 15.00–17.00, 17.30–20.00 **Turkish.** – **N.in Turk-**

ish: 05.15*(W), 06.00*(Sun.), 12.00, 17.30*, 19.50. **Requests:** Mo. 16.00, Wed. 15.15 (from overseas to Cyprus), Sat. 15.30, Sun. 07.15 (Turkish & Western).
ENGLISH PRGR's are broadcast on all CBS wavelengths at the following times with the exception of daily news etc. at 17.00–17.30 on 606, 900 kc/s only. **N.:** 05.45* (May-Oct. 05.00*), 11.30 (May-Oct. 11.45), 17.00*, 21.10.
Prgr's: W. 10.30–11.00, D. 14.30–15.00, 20.00–21.00.
ARMENIAN: 14.00–15.00 1st Sun. of the month on all CBS wavelengths.
*) wrp. after news.
ANN.: Greek: "Edho Kypriaki Radiofoniki Ypiresia". – **Turkish:** "Burasi Kibris Radyo Servisi".
INT.-SIG.:



V. by letter. – **F.PL.:** The present Go. st. will probably become a corp. able to take advertising in 1959.

INDEPENDENT TRANSMITTING UNIT (Non-Comm.)
ADDR.: R. ITU, P.O. Box 1, RAF Episkopi, BFPO 53. – **L.P.:** Dir. Gen.: C. G. Pascoe, DFC. Mgr.: D. Collinns (Nicosia). Dir. Prgr.: C. J. Hughes. Dir. Adm.: P. Hodges. Dir. Tec.: W. J. Brewser. Dir. For. Rel.: P. Wade (London).
HOME SCE. in English:
Episkopi 7130 kc 42.08 m 0.5 kW 12.00–15.30.
N. & Comm.: 13.00. – **ANN.:** "You are tuned to the Independent Transmitting Unit, Episkopi, broadcasting to sw.–Cyprus". – **V.** by letter. – **INT.-SIG.:**



F.PL.: Prgr. in Arabic early 1959.

FORCES BROADCASTING SERVICE (Br. War. Dept.)
ADDR.: No. 4 Forces Broadcasting Service, B. F. P. O. 53, Nicosia. –
HOME SCE. in English:

Limassol	719 kc/s	417.2 m	}	W. 04.00–06.15, 10.30–21.00.
Nicosia	1086 –	276.0 –	}	Sun. 05.00–21.00.
Episkopi	95.8 mc/s		}	

ANN.: "This is the Forces Broadcasting Station, Cyprus." – **INT.-SIG.:** Musical Box. – **V.** by QSL-card/letter.

★ IRAN ★

L.T.: GMT+3½ h. – **L.:** Persian. – **Rcvrs.:** 800.000.

DEPARTMENT OF PUBLICATION AND BROADC. (Go.)
ADDR.: Radio Iran, Meidan Ark, Tehran. – **L.P.:** Dir. Gen.: N. Moinian. Mgr.: P. Samii. Dir. Prgr.: A. F. Ebrahimi. Dir. Adm.: F. Hashemi. Dir. Tec.: R. Atefi. Dir. Foreign. Rel.: Dr. S. Shahbari. Dir. Netw. Prgrs.: A. Millini.
HOME SCE.: R. Iran: 02.00–06.30, 08.00–12.15, 12.30–20.30.
895 kc/s 335.0 m 50 kW 9660 kc/s 31.06 m 100 kW
3780 – 79.35 – 100 –
N.: Each hour on the hour exc. Fri. – **N. Commentary:** 11.00, 12.00. – **Wrp.:** 11.00, 17.30. – **Mbg.:** Fri. 04.30, 08.30. – **Nat. Music:** 09.45, 15.00, 17.00. – **Urdu:** 11.45–12.00. – **Arabic:** 12.00–12.15.
FOREIGN SCE.: R. Tehran: 20.00–21.00.
1340 kc/s 224.0 m 10 kW 15100 kc/s 19.87 m 20 kW
11703 – 25.64 – 20 –
French: 20.00–20.15, **English:** 20.15–20.30, **Russian:** 20.30–20.45, **German:** 20.45–21.00.
ANN.: English: "This is Tehran Calling". Persian: "Inja Tehran". – **INT.-SIG.:** Iranian melody on piano. – **V.** by letter. – **F.-PL.:** 11 new provincial tr. of 1 kW and 1 m.w. tr. 5 kW.
REGIONAL STATIONS:
R. Tabriz, Tabriz, Azarbajan.
640 kc/s 468.8 m 1 kW } 02.30–04.00, 09.00–11.00, 14.00–17.30.
6152 – 48.76 – 7.5 – }
Persian: N.: 03.00, 10.00, 16.00. – **Turkish:** N.: 14.30. – **Kurdish:** N.: 15.00. – **Armenian:** N.: 17.00. – **V.** by letter.
R. Meshed 6250 kc/s 48 m 0.75 kW – R. Isfahan 6521 kc/s 46 m 0.5 kW
R. Shiraz 6383 kc/s 47 m 0.5 kW – R. Kordestan 8108 kc/s 37 m 0.5 kW
R. Ahwaz 8108 kc/s 37 m 0.75 kW.

★ IRAQ ★

L.T.: GMT+3 h. – **L.:** Arabic, Kurdish. – **Rcvrs.:** 80.000.

BROADCASTING STATION OF THE REPUBLIC OF IRAQ (Go.)
ADDR.: Salhiyah, Baghdad. – **L.P.:** Dir. Gen.: S. Al-Fakhri.
HOME SCE.:
908 kc/s 330 m 200 kW YIH66 – 6188 kc/s 48.48 m 100 kW YIH62
3297 kc/s 91.00 m 16 kW YIH32 – 7180 kc/s 41.78 m 100 kW
Arabic: 03.30–06.00, 10.00–21.00 on 908, 6188, 7180 kc/s. **N.:** 04.00, 11.00, 14.00, 15.00, 17.00, 19.00, 21.00. – **Wrp.:** 17.15.
Kurdish: 13.00–17.00 on 3297 kc/s.
FOREIGN SCE. on 6188 kc/s:
English: 17.00–18.00. **French:** 18.00–18.15. **Turkish:** 18.15–18.30. **Persian:** 18.30–18.45. **Urdu:** 18.45–19.00. **German:** 19.00–19.15.
ANN.: "Huna Baghdad" (Here is Baghdad). – **INT.-SIG.:** Soft chirps of a mechanical nightingale. – **V.** by QSL-card. – **PUB.:** Prgr. sched., Monthly.
See corrections last page.

★ ISRAEL ★

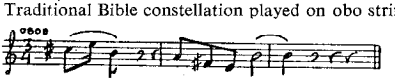
L.T.: GMT+2 h. – **L.:** Hebrew, Arabic. – **Rcvrs.:** 360.000.

ISRAEL BROADCASTING SERVICE (Go.)
ADDR.: Kol Israel: Israel Broadc. Sce., Broadcasting House, Jerusalem. **Cable:** "Kol Israel". – **L.P.:** Dir.: Zvi Zinder. Deputy Dir.: H. Givton. Dir. Prgr.: Dr. Y. Spiro. Dir. Transcription Sce.: K. Salomon. Dir. Tec.: M. Berman.
STATIONS: 12 m.w. tr., 6 s.w. tr., FM-st. 10 (for radio links).

M.W.	m	kW	Call	Prgr.	kc/s	m	kW	Call	Prgr.
575	521.7	50/10	4XB36	A	1169	256.4	1	4XB23	A
652.1	460	0.8	4XB47	B	1205	249	10	4XB35	A
710	422.5	1	4XB20	B	1277	234.9	1	4XB53	C
737	407.1	100/10	4XB34	A	1336.5	224.5	1	4XB42	C
1025	292.2	0.5	4XB48	B	1390	215.8	1	4XB43	C
S.W.:									
2442	122.9	0.5	4XB51	C	7189	41.73	7.5/2.5	4XB49	B
6190	48.47	1	4XB44	C	9009	33.30	50/7.5	4XB31	

FM:	Call	mc/s	kW	Call	mc/s	kW	Call	mc/s	kW	Call
71.5	0.04	4XB45	89.3	0.25	4XB32	93.3	0.25	4XB39	99.3	0.25	4XB55
88.3	0.25	4XB37	90.3	0.25	4XB33	94.3	0.25	4XB52	99.7	0.04	4XB46
88.8	0.25	4XB54	91.3	0.25	4XB38						

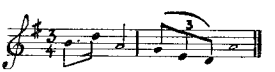
For radio links only between studios and transmitters.
HOME SERVICES
Main Prgr. in Hebrew (1st Prgr.) on 575/1169/1205 kc/s: 04.30–06.00, 09.00–13.00, 14.00–21.00. – **N.:** 05.00, 11.30, 15.00, 17.00, 19.00, 21.00.
2nd Prgr. (for new immigrants) in Hebrew, Yiddish, Ladino, French, English, Hungarian, Rumanian, Polish, Moroccan, Arabic on 652.1/710/1025/7189 kc/s: 16.00–20.15.
English: 12.00–12.15, 20.00–20.15. – **French:** 12.15–12.30, 17.00–17.30.
Special Prgr. in English, Spanish, Swedish for UN. Emergency Forces: 14.30–15.00.
Forces Prgr. in Hebrew on 1277/1336.5/1390/2442/6190 kc/s: 16.30–20.30.
Arabic on 737 kc/s: 04.30–05.15, 11.15–12.15, 15.30–21.15.
Persian on 737 kc/s: 15.15–15.30.
INT. SIG. Traditional Bible constellation played on obo strings.



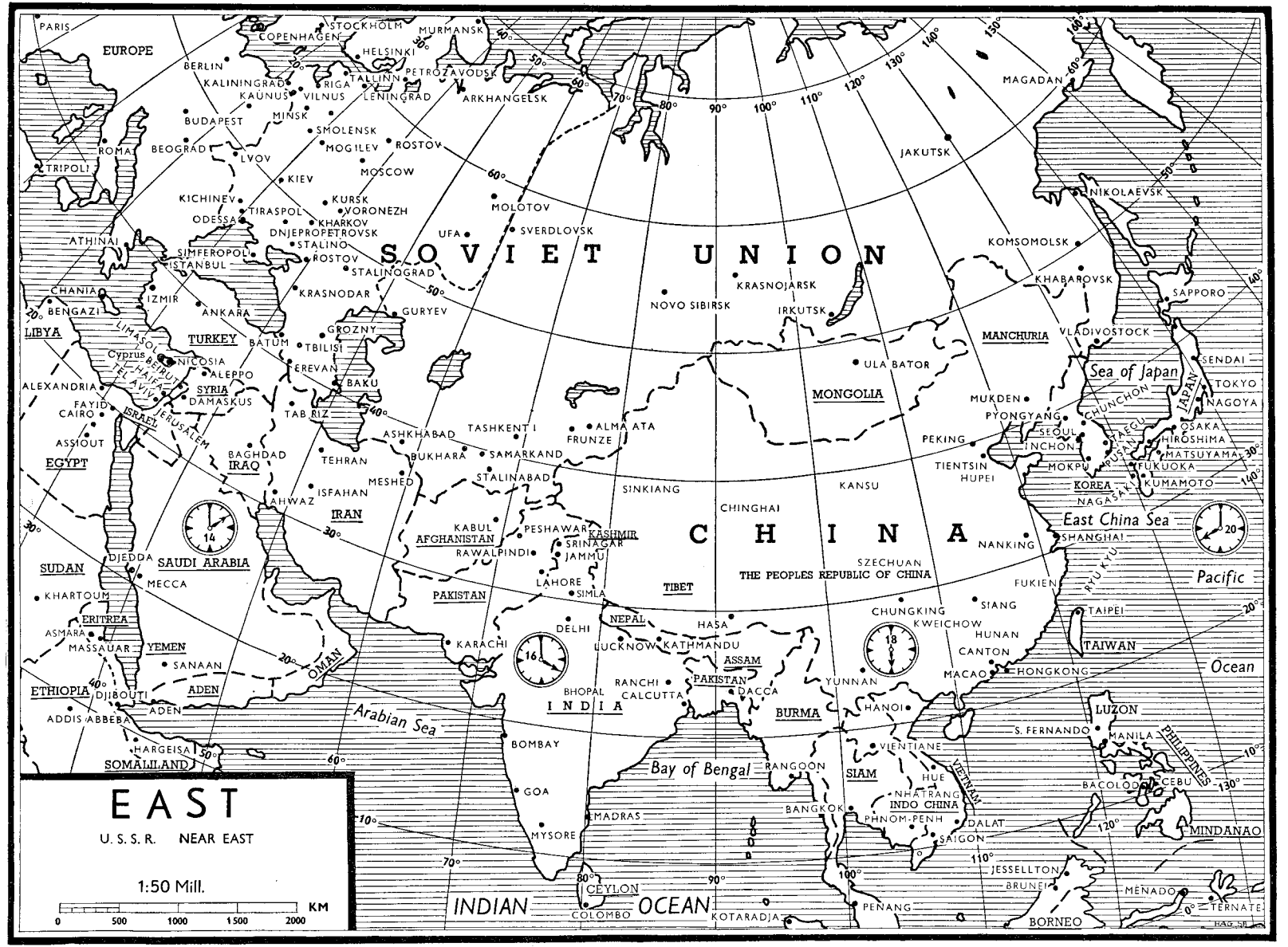
FOREIGN SERVICE on 9009 kc/s.
To Europe:

18.15–18.30	**Yiddish**	19.30–19.45	**Hebrew**
18.30–18.45	**Ladino (Spanish)**	19.45–20.00	**French**
19.00–19.15	**Hungarian**	20.15–20.30	**English**
19.15–19.30	**Rumanian**	20.45–21.00	**Yiddish**

To So. Africa: 16.30–16.45 English.
ANN.: Home Sce.: "Kol Israel Meyerushalayim". **Foreign Sce.:** E.: "This is Kol Israel, the Voice of Israel, broadcasting from Jerusalem".
INT.-SIG.:



V. by QSL-card. – **F.PL.:** 2 tr. 100 kW, one m.w. and one s.w. 1959–60. By that time it is proposed to add a fifth "Light Prgr." to the existing 4 sce.'s (Home-Hebrew; Home-New Immigrants; Arabic; Foreign).
PUB.: Weekly prgr. sched.


EAST
U. S. S. R. NEAR EAST
1:50 Mill.
0 500 1000 1500 2000 KM
SOVIET UNION
CHINA
THE PEOPLES REPUBLIC OF CHINA
EUROPE
PARIS
COPENHAGEN
STOCKHOLM
MURMANSK
HELSINKI
BERLIN
KALININGRAD
RIGA
TALLINN
PETROZAVODSK
KAUNUS
VILNUS
LENINGRAD
ARKHANGELSK
BUDAPEST
MINSK
SMOLENSK
MOGILEV
ROSTOV
ROMA
BEOGRAD
LVOV
MOSCOW
TRIPOLI
KIEV
KICHINEV
KURSK
VORONEZH
TIRASPOL
ODESSA
KHARKOV
DNJEPROPETROVSK
STALINO
ATHINAI
SIMFEROPOL
ISTANBUL
ROSTOV
STALINOGRAD
CHANIA
IZMIR
KRASNODAR
BENGAZI
ANKARA
GURYEV
LIBYA
LIMASOL
TURKEY
GROZNY
BATUM
TBILISI
Cyprus
NICOSIA
BEIRUT
HAIFA
TEL AVIV
ALEPPO
EREVAN
ALEXANDRIA
SYRIA
BAKU
FAYID
CAIRO
DAMASKUS
ISRAEL
JERUSALEM
TABRIZ
ASSIOUT
EGYPT
BAGHDAD
IRAQ
TEHRAN
ASHKHABAD
TASHKENT
ALMA ATA
FRUNZE
BUKHARA
SAMARKAND
MESHED
STALINABAD
ISFAHAN
AHWAZ
IRAN
SINKIANG
CHINGHAI
KABUL
AFGHANISTAN
PESHAWAR
KASHMIR
SRINAGAR
RAWALPINDI
JAMMU
LAHORE
SIMLA
PAKISTAN
TIBET
SUDAN
DJEDDA
SAUDI ARABIA
MECCA
KHARTOUM
ERITREA
ASMARA
MASSAUAR
YEMEN
SANAAN
OMAN
ETHIOPIA
DJIBOUTI
ADEN
ADDIS ABBEBA
HARGEISA
SOMALILAND
DELHI
NEPAL
HASA
KARACHI
LUCKNOW
KATHMANDU
ASSAM
RANCHI
PAKISTAN
BHOPAL
CALCUTTA
DACCA
INDIA
Arabian Sea
BOMBAY
GOA
MADRAS
MYSORE
CEYLON
COLOMBO
INDIAN OCEAN
Bay of Bengal
RANGOON
BANGKOK
KOTARADJA
PENANG
SIAM
BURMA
YUNNAN
HANOI
VIENTIANE
HUE
NHATRANG
INDO CHINA
PHNOM-PENH
DALAT
SAIGON
VIETNAM
JESSELLTON
BRUNEI
BORNEO
MENADO
TERNATE
MINDANAO
LUZON
S. FERNANDO
MANILA
PHILIPPINES
BACOLOD
CEBU
MACAO
HONGKONG
CANTON
HUNAN
KWEICHOW
CHUNGKING
SIANG
FUKIEN
TAIPEI
TAIWAN
RYU KYU
SHANGHAI
NANKING
SZECHUAN
KANSU
TIENTSIN
HUPEI
PEKING
MUKDEN
PYONGYANG
SEOUL
INCHON
CHUNCHON
TAEGU
PUSAN
MOKPU
KOREA
NAGASAKI
KUMAMOTO
FUKUOKA
MATSUYAMA
HIROSHIMA
OSAKA
JAPAN
TOKYO
NAGOYA
SENDAI
SAPPORO
VLADIVOSTOCK
MANCHURIA
KHABAROVSK
KOMSOMOLSK
NIKOLAEVSK
JAKUTSK
MAGADAN
ULA BATOR
MONGOLIA
KRASNOJARSK
IRKUTSK
NOVO SIBIRSK
MOLOTOV
SVERDLOVSK
UFA
Sea of Japan
East China Sea
Pacific
Ocean
14
16
18
20

★ JORDAN ★

L.T.: GMT + 2 h. – L.: Arabic, English. – Rcvrs.: 53.281.
HASHEMITE JORDAN BROADCASTING SERVICE (Go.)
ADDR.: Jerusalem, Jordan. – L.P.: Dir. Gen.: H.E.S.A.M. Rifai. Mgr.: A. Hammad. Dir. Prgr.: S. Aweidah. Dir. Tec.: A. Bayyat.

STATIONS:	kc/s	m	kW		kc/s	m	kW	
Jerusalem	677	443	20	Amman	6045	49.63	5	d
Amman	1449	207	5	Amman	7200	41.67	3	d

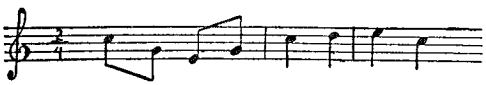
HOME SERVICE:
Arabic: 04.30–06.30, 11.30–13.00, 16.00–23.00. – **Wrp.:** 19.00. **English:** 11.00–11.30, 15.00–16.00.
ANN.: E. "This is Jerusalem, the Broadcasting Service of the Hashemite Kingdom of Jordan". – V. by letter. – F.PL.: 100 kW tr. on 800 kc/s; 100 kW on 6045 and 7.5 kW on 7200 kc/s early 1959. – PUB.: Prgr. sched. free on request.

★ KUWAIT ★

L.T.: GMT + 3 h. – L.: Arabic.
R. KUWAIT Security Dept., Kuwait.
HOME SCE.: 5000 kc/s 60.00 m 1 kW: D. 16.00–19.30. Fri. 05.00–07.00. 16.00–approx. 16.25: Koran recitation.
ANN.: "dar al-iza'ah al-Kuwaitiyah" or "huna dar al-idha'ah al-Kuwaitiyah" or "mahattat al-iza'ah al-Kuwaitiyah" – V. by letter.

★ LEBANON ★

L.T.: GMT + 2 h. – L.: Arabic, French, English. – Rcvrs.: 80.000.
LEBANESE BROADCASTING STATION (Go.)
ADDR.: Radio Liban, Ministére de l'Information, Beyrouth.
Cable: "Radioliban". – L.P.: Dir. Gen.: Loutfi Haidar. Dep. Dir. Gen: N. Lian. Dir. Press. Dept.: F. Abi Chahla. Dir. Tec.: J. Rouhayem.
HOME SERVICE:
836 kc/s 359 m 4 kW – 989 kc/s 303.3 m 10 kW – 8036 kc/s 37.34 m 2kW
Arabic on 836/8036 kc/s: 04.30 (Sun. 05.00)–05.30, 05.45–07.30. (Sun. 09.00, Fri. 10.00), 11.00–13.30 (at 11.30–12.30 on m.w. only), 14.30–15.00 (exc. Thurs., Sat.), 16.00–22.00 (at 19.00–20.15 on m.w. only). – N.: 05.00, 07.25, 11.00, 18.00, 20.15, 21.50. – Wrp.: 18.15.
French: D.: 05.30–05.45 on 836/8036 kc/s. 11.30–12.30, 19.00–20.15 on 8036 kc/s. Sun. also 10.00–11.00 on 836/8036 kc/s. – N.: 05.30, 11.30, 19.00. – **Request Prgr.:** Sun. 10.00, Sat. 19.15. – Wrp.: 05.45.
English: D.: 15.00–16.00 on 836/8036 kc/s. – N.: 15.00. – "English by Radio" (English/Arabic): Thurs. 15.45.
ANN.: **Arabic:** "Houna Beyrouth, Dar al'Iza'a al Loubnaniat". F.: "Ici Beyrouth, Station de Radiodiffusion Libanaise". E.: "This is the English programme of the Lebanese Broadcasting Station in Beirut". – INT.-SIG.: For medium and short wave:



V. by QSL-card. – F.PL.: A m.w. & s.w. st. 100 kW each end 1959. – PUB.: Prgr. schedule in Arabic free on request.

★ SAUDI ARABIA ★

L.T.: GMT + 3 h. – L.: Arabic. – Rcvrs.: 18.000.
SAUDI ARABIAN BROADCASTING (Go.)
ADDR.: General Directorate of Press Information and Broadcasting. Djeddah.
HOME SERVICE: 03.00–04.30, 11.00–12.30, 16.00–20.00.
725 kc/s 413 m 50 kW – 6100 kc/s 49.18 m 10 kW.
FOREIGN SERVICE: 11950 kc/s 25.10 m 3 kW d.
Urdu: 13.00–13.40 (to Pakistan). – **Indonesian:** 14.00–14.40.
ANN.: **Home Sce.:** "Huna Macca, Dar el Izaa el Arabiyeh el Seoudiyeh". **Foreign Sce.:** "Disini Mecca" (Indonesian). "Markaz nashr iza'a Macca muazamah" (Urdu). – INT.-SIG.: Call to prayer (az'an) played on flute. – V. by letter. – F.PL.: 1959: Djeddah 100 kW, 50 kW s.w.d. Riyadh 50 kW m.w. 200 kW s.w.d.

★ SYRIA (United Arab. Rep.) ★

L.T.: GMT + 2 h. – L.: French. – Rcvrs.: 800.000.
DAMASCUS U.A.R. BROADCASTING SERVICE (Go.)
ADDR.: Rue de la Victoire, Damascus.

STATIONS:

602 kc/s	498.20 m	2 kW		9555 kc/s	31.40 m	7.5 kW	
665 –	451.20 –	50 –		15165 –	19.78 –	20 –	
719 –	417.20 –	2 –		17850 –	16.81 –	20 –	
746 –	402.00 –	20 –		17860 –	16.80 –	20 –	
5940 –	50.51 –	7.5–		21560 –	13.91 –	20 –	
6165 –	48.66 –	20 –					
7133 –	42.07 –	20 –					

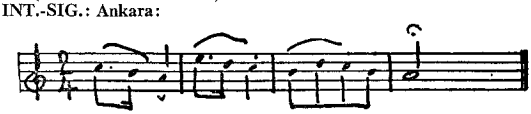
HOME SERVICE:
In Arabic: 04.00–07.30, 11.30–13.00, 15.00–22.00.
In French, English: 05.30–06.30, 08.30–12.30, 13.00–19.30 on 602, 719, 7133, 9555 kc/s.
FOREIGN SERVICE:
To Eu. on 15165 kc/s: 19.30–20.15. **French,** 20.15–20.30. **English.**
To **N.Af.** in **Arabic** on 17850, 21560 kc/s: 13.00–14.00.
To **Israel** in **Hebrew** on 665, 746, 9555 kc/s: 14.00–15.00.
To **So.,C.Am.** in **Arabic, Spanish, Portuguese:** on 15165, 17865 kc/s: 00.00–00.05 (Arabic, Sp.), 00.05–01.00 (Arabic), 01.00–02.00 (Sp.).
ANN.: **Arabic:** "Houna Dimackh". E.: "This is Damascus Calling". F.: "Ici Damas". Sp.: "Aqui Damasco". **Hebrew:** "Kol Damasseh". V. by QSL-card and letter.

★ TURKEY ★

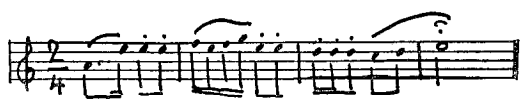
L.T.: GMT + 2 h. – L.: Turkish. – Rcvrs.: 1.097.160.
RADIO ANKARA (Go.)
ADDR.: **Office:** Turkish Press, Broadcasting and Tourist Dept., Ankara – **Studios:** Radyoevi, Ankara – Radyoevi, Istanbul. – **Cable:** Basin-Yayin, Ankara.
L.P.: Dir. Gen.: Prof. dr. H. Demircioglu. Dir. Radio Branch: R. A. Sevengil. Tec. Adviser: M. Eke. Dir. R. Ankara: H. M. Ebcioglu. Dir. R. Istanbul: S. Akgöl. Dir. R. Izmir: N. Varol.
HOME SERVICE:

R. Ankara	TAR	182 kc/s	1648 m	120 kW:	04.20–14.00, 14.58–22.05
R. Istanbul	TAW	701 –	428 –	150 – :	05.20–07.00, 10.27–13.00, 14.57–22.05.
R. Izmir	TAZ	6600 –	45.45 –	0.4 – :	13.58–21.15

FM: Istanbul 92 mc/s – 96 mc/s – 0.25 kW.
N., Wrp.: On 182 kc/s: 05.45, 11.00, 17.00, 18.00, 18.15, 20.45. On 701 kc/s: 06.00, 11.30, 17.30, 18.00, 18.15, 21.15. On 6600 kc/s: 14.30, 18.00, 18.15, 19.45.
ANN.: "Burasi Ankara" (This is Ankara), or "Burasi Istanbul Radyosu" (This is Radio Istanbul).
INT.-SIG.: **Ankara:**



Istanbul: An old Turkish folk song "Usküdara gider iken":



FOREIGN SERVICE:

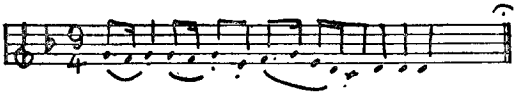
Ankara I 20 kW			Ankara II 100 kW					
	kc/s	m		kc/s	m		kc/s	m
TAN	6000	50.00	*TAL4	7140	42.02	TAU	15160	19.79
TAM	7240	41.44	TAS	7285	41.18	*TAL3	15220	19.71
TAP	9465	31.70	TAT	9515	31.53	TAV	17820	16.84
TAK	11760	25.51	*TAO	11880	25.25	*TAX	21660	13.85
TAQ	15195	19.74						
TAD	17720	16.93	* inactive.					

DAILY PRGR.: HS = Home Sce. ** Mbg. every Sun.

		Target Areas	kc/s
Arabic	06.00–06.30	M.E.	9465
	13.00–13.30	M.E.	9465
	16.30–17.00	M.E.	9465
	18.15–18.30	M.E.	9465
Bulgarian	18.00–18.15	Eu.	7285/9465
English	13.30–14.15	S.E.As.	17820
	21.00–21.45**	W.Eu.	9465/15160
	23.15–24.00**	N.Am.	9515
French	20.15–20.45	Eu.	15160
German	19.30–20.15	Eu.	15160
Greek	17.15–17.45	Eu.	9465/15160
Hungarian	19.00–19.15	Eu.	9465/15160
Italian	19.30–20.00	Eu.	9465
Persian	16.00–16.30	Iran	9465

Polish	19.15–19.30	Eu.	9465/15160
Pushtu	15.00–15.30	Afg.	17820
Rumanian	17.45–18.00	Eu.	9465/15160
Serbo-Croat	18.30–19.00	Eu.	9465/15160
Spanish	22.30–23.00	Eu./S.Am.	9515
Turkish	11.00–11.30	Korea	17820
	11.00–12.00	HS/Eu.	9465
	17.00–17.15	HS/Eu.	9465/15160
	18.15–18.30	HS/Eu.	15160
	20.00–20.45	Eu.	9465
	20.45–21.00	Eu.	9465/15160
Urdu	15.30–16.00	So.As.	17820

ANN.: "Burasi Türkiye Radyoyayin Postalari Kisa dalga Ankara Radyosu" (This is the Turkish Broadc. Sces. S.W. Ankara R.).
INT.-SIG.: An old Turkish dance-tune "Sari Zeybek"



V. by QSL-card. – **PUB.**: Weekly prgr. sched. for R. Ankara, R. Istanbul, R. Izmir. Free distribution to certain persons, institutions and firms.

TECHNICAL UNIVERSITY OF ISTANBUL (Go.)
ADDR.: Teknik Üniversite, Elektrik Fakültesi. Yüksek Frekans Teknigi Laboratuvari, Istanbul.
HOME SERVICE: I.T.U. = Istanbul Teknik Üniversiteti.
6299 kc/s 47.62 m 1 kW: 18.15–20.00 (exc. Sat.).
7018 – 42.74 – 1 – : 18.15–20.00 (exc. Sat.).
Frequencies are shifted slightly if interference occurs.
PRGR.: National (Turkish) and **Classical music. Turkish music**: Sun., Tues., Thurs. 18.15–18.45.
ANN.: **Turkish**: "Burasi Istanbul Teknik Üniversiteti Radyosu".
E.: "Here is the Radio Station of the Technical University of Istanbul".
INT.-SIG.: "Turkish March" by Mozart. – V. by letter. R.p.

TECHNICAL SCHOOL OF ISTANBUL
ADDR.: The Technical School, Radio Laboratory, Yildiz, Istanbul.
STATION: TAO5 7143 kc/s 42.00 m 0.1 kW: Sun. 08.00–09.00. D. 16.00–17.00. Western and Turkish recordings.

ISTANBUL UNIVERSITY RADIO
ADDR.: Istanbul Ten Fakültesi Radyosu, Istanbul.
STATION: TAO 7545 kc/s 39.76 m 2 kW.

ANKARA STATE POLICE RADIO
ADDR.: Türkiye Police Radyosu Emmiyet Genel Müdürlügü, Ankara.
STATION: 6120 kc/s 49.02 1 m kW: 07.58–09.00, 14.00–15.00: Popular Western recordings, Turkish music and advice about traffic to drivers.

ANKARA BOYS' TECHNICAL TEACHERS SCHOOL
ADDR.: Ankara Erlek Teknik Ogretmen Okulu, Radyo Servici, Ankara. – STATION: 6449 kc/s 46.51 m 1 kW: 05.57–07.00. Music.

IZMIR MITHAT PASCHA BOYS TECHNICAL INSTITUTE RADIO
ADDR.: Izmir Mithat Pasa Erlek Sonat Enstitüsü, Deneme Radyosu, Karantina, Izmir. – STATION: 7000 kc/s 42.85 m 0.4 kW: 08.28 (Sun. 07.58)–10.00. Music.

NAVAL WAR SCHOOL RADIO
ADDR.: Heybeli-ada Island, near Istanbul. – STATION: 7154 kc/s 41.95 m: Sun.: 08.30–09.30, 11.30–12.30. – ANN.: "Burasi Deniz Horp Okulu Radyosu".

★ YEMEN ★

L.T.: GMT+3 h. – **L.**: Arabic.
RADIO SANAAH (Go.). 5985 kc/s 50.13 m 1 kW: 04.00–05.00, 16.40–18.00. – ANN.: "Huna Sana, dar idha'at al-Mamlakah al-Mutawakkiliyah al-Yamaniyah li ad-Duwal al-Arabiyah al-Muttahidad". (This is Sana, broadcasting station of the Mutawakkilite Yemeni Kingdom of the United Arab States).

EAST

★ BORNEO, NORTH (British) ★

L.T.: GMT+8 h. – **L.**: English, Chinese, Malay. – **Rcvrs.**: 7960.
NORTH BORNEO BROADCASTING SERVICE (Go.)
ADDR.: Radio Sabah, Information Office, Jesselton. **Cable**: Infof.
L.P.: Dir. Broadc., Inform.: R. J. Brooks.
HOME SERVICE: 5 kW. Call: VQA—.

Call	kc/s	m	Call	kc/s	m	Call	kc/s	m
–	930	323.0	53	6090	49.26	56	9660	31.06
82	4970	60.36	54	7180	41.78	57	9740	30.80
52	5980	50.17	55	7240	41.44			

HOME SCE.: 04.15 (Sat. 03.15)–05.45, 09.00–13.00.
English: Sun.–Fri.: 04.45–05.15. Sat.: 03.20–04.00, 04.45–05.15. D. 11.30–13.00 (N. 11.30). – **Malay**: Sun.–Fri. 04.15–04.45. Mo.–Thurs. 10.00–10.45. Fri.–Sat. 10.00–11.00. Sun. 10.00–11.30. – **Chinese**: Sun.–Fri. 05.15–05.45. D. 09.00–10.00. – **Kadazan**: Mo.–Thurs. 10.45–11.30. Fri., Sat. 11.00–11.30.
ANN.: "This is Radio Sabah operating in the 41 m.b. from Jesselton, No. Borneo". – INT.-SIG.: Open and close with the sound of No. Borneo native gongs. – V. by QSL-card or letter.

★ BRUNEI (British) ★

L.T.: GMT+8 h. **L.**: Malay, English. **Rcvrs.**: 3000.
BRUNEI BROADCASTING SERVICE (Go.)
ADDR.: Brunei, No. Borneo. **Cable**: "Broadcasting". – **L.P.**: Head of Broadc.: J. H. Duclos, Dip. PSA. Chief Eng.: A. T. Dunk, M.B. I.R.E.
HOME SCE.: 1240 kc/s 242.1 m 20/2 kW: 09.30–15.00 in **English, Malay, Chinese** (Mandarin & Hokkien). – ANN.: **E.**: "This is Radio Brunei". – **Malay**: "Ini late Radio Brunei". – V. by QSL-card or letter. – **F.PL.**: Third tr. at Kuala Belait May 1959. Reg. st.

★ BURMA ★

L.T.: GMT+6½ h. – **L.**: English, Burmese, Hindustani. – **Rcvrs.**: 50.000.
BURMA BROADCASTING SERVICE (Go.)
ADDR.: No. 28, Windermere Crescent, Rangoon. – **L.P.**: Dir. Gen.: U Khin Zaw, BA, FLA. Dir. Adm.: U Pe Thaw, BA, BL. Dir. Tec.: U Win Mg, M.I.R.E.
HOME SERVICE:

Call	kc/s	m	kW	h. of tr.
–	955	314.0	50	00.00–17.00
XZK2	4795	62.54	50	00.00–04.00, 10.00–17.00
XZK3	6035	49.71	50	00.00–10.00
XZK4	7125	42.11	50	00.00–04.00, 10.00–17.00
XZK5	9540	31.45	50	05.00–10.00

FM: 100/102/104/106 mc/s – 0.25 kW.
Burmese: **N.**: 01.15, 06.30 (exc. Mo.). D. 13.15. – **Wrp.**: 13.28. – **Burmese music**: 01.20–01.45, 13.30–14.13. Sun., Thurs. 11.20–12.00. Sat. 12.40–13.00. – **Mbg.**: 01.45. Mo., Tues., Thurs., Sat. 12.45. Sun. 13.00.
English: **N.**: D.: 02.00, 07.00. Mo. 15.00. – **Wrp.**: 15.05. – **Mbg.**: Wed., Fri. 14.30–15.00. Sun. 07.10–07.30. – **Hindustani**: 02.15–02.30. – **N.**: 02.22. – **Native Dialects**: 12.00–12.30.
ANN.: **E.**: "This is Myanma Athan, the Burma Broadcasting Service". **Burmese**: "Myanma Athan Hma Athan Hlwint Nay Barthe". – V. by QSL-card. R.p.

★ CAMBODIA ★

L.T.: GMT+7 h. – **L.**: French, Cambodian. – **Rcvrs.**: 7000.
RADIO CAMBODGE (Go.)
ADDR.: No. 28 Avenue Preah Moha Ksatéyany Kassamak, Phnom-Penh.
HOME SERVICE in **Cambodian**:

1410 kc/s	213.0 m	10 kW		22.30–01.30, 04.00–06.00, 10.00–13.00
6090 –	49.26 –	10 –		
7187 –	41.74 –	10 –		

FOREIGN SERVICE on 6090/7187 kc/s: 13.00–15.00.
English: 13.00–13.20. **French**: 14.00–15.00. **Thai**: 13.20–13.40. **Vietnamese**: 13.40–14.00.
ANN.: "Ici Phnom-Penh, La Voix du Cambodge, Station de Radiodiffusion Nationale Khmère".

★ CEYLON ★

L.T.: GMT+5½ h. – **L.**: English, Sinhalese, Tamil. – **Rcvrs.**: 198.989.
RADIO CEYLON (Go., Comm.)
ADDR.: Dept. of Broadcasting, P.O. Box 574, Colombo 7. – **Cable**: "Radceylon".
L.P.: Gen.: T. E. Guneratne (Acting). Dir. Tec.: N. S. Wickremasinghe. Dir. Nat. Sce : S. B. Senanayake. Dir. Comm. Service: C. R. Dodd. Adm. Assistant: J. W. Ratnayake. Listeners Research Officer: P. W. S. Perera. Editor Pub.: A. H. F. Porritt.
STATIONS:

kc/s	m	kW	kc/s	m	kW	kc/s	m	kW
640	469.0	0.25	4970	60.36	7.5	7300	41.09	7.5
700	428.0	15	5020	59.76	1	9520	31.51	35
870	344.8	0.25	6004	49.96	7.5	11835	25.35	35
920	326.0	1	6095	49.22	10	11875	25.26	35
4870	61.60	7.5	7110	42.19	35	15120	19.84	35
4900	61.22	10	7190	41.72	35	15265	19.65	35
4940	60.72	7.5	7240	41.44	7.5	17820	16.84	35

NATIONAL SERVICE

ENGLISH: W. 11.30–17.00 on 920/5020 kc/s. Sun. 04.30–07.50, 11.30–17 00 on 920/5020/7240 kc/s.–**N., Commentary, Wrp.: W.:** 12.30, 15.15.
SINHALESE: 01.00–03.00 (Sun. 06.30), 06.30–08.00 (Sun. 08.30) on 700/7110 kc/s.-D. 11.30-17.00 on 700/4900 kc/s.N.:01.45, 07.15, 12.30, 15.30. **Nat. Music:** W. 02.30 (Wed.: Gazal Music, Thurs.: Bhajan Music), 13.15.
TAMIL: 01.30–03.00 (Sun. 06.30), 06.30–08.00 (Sun. 08.30) on 870/7300 kc. D. 11.30–17.00 on 870/4970 kc/s. **N.:** 02.00, 07.00, 12.30, 15.15.
ANN.: E.: "This is the National Sce. of R. Ceylon". – **Tamil:** "Illankai Vanalai-Thesiya Oliparappu". – **Sinhalese:** "Me Lanka Guvanviduliye Swadeshiya Pracharayai". – **INT.-SIG.:** All three services open with "National Drums" ("Magul Bera") and close with National Anthem ("Namo Namo Matha").

COMMERCIAL SERVICE

To CEYLON in English, Sinhalese, Tamil:
English: D. 01.30–04.30 on 920/7240 kc/s. Mo.-Fri. 07.30–09.30 on 640/6004 kc/s. Sat., Sun. 07.30–11.30 on 920/7240 kc/s. D. 11.30–17.30 on 640/4870 kc/s. N. (BBC): D. 02.00, 13.00. – **Sinhalese:** D. 01.30–04.30, 05.30–06.30, Mo.-Fri. 06.30–07.30, Sat. 06.30–09.30, Sun. 06.30–10.30 on 640/6004 kc/s. Mo.-Fri. 07.30–10.30 on 920/7240 kc/s. **Tamil:** D. 04.30–05.30 on 640/6004 kc/s. W. 09.30–11.30, Sun. 10.30–12.30 on 640/4870 kc/s.
To ASIA in English, Hindi, Tamil:
English: 01.30–04.30 (Sun. 08.30) on 7190/15265 kc/s. 11.30–17.30 on 6004/9520 kc: N. (BBC): D. 02.00, 13.00. **Home N.:** D. 12.40. – **Hind, Tamil:** 01.30–04.30 (Sun. 07.30) on 9520/15120 kc/s. D. 10 30–17.30 on 7190 kc/s
To AFRICA in English: 17820 kc/s: 06.15–06.30 (exc. Sun.)
To So. Ea. ASIA in English: 17820 kc/s: 09.15–11.15.
ANN.: E.: "This is the Commercial Service of R. Ceylon". – **Sinhalese:** "Me Lauka Velanda Guwan Viduli Sewayai". – **Tamil:** "Illankai Vanali Varthaga, Olipparappu." – **Hindi:** "Yeh R. Ceylon Ka Vyapaar Vibhag Hai". – **INT.-SIG.:** Opens & closes with the theme "Strike up the Band". – **V.** A Listeners Research Section is being organized. – **PUB.:** R. Times (fortnightly).

VOICE OF AMERICA RADIO STATION IN CEYLON

ADDR.: Voice of America, Washington 25, D.C., U.S.A.
STATIONS: Short Wave: Colombo 35 kW: 01.00–03.30, 12.00–18.00.
7110 kc/s 42.19 m 11835 kc/s 25.35 m 11875 kc/s 25.26 m
D. PRGR.:

01.00–01.30 English	13.30–14.00 Urdu	15.00–15.30 English
02.00–02.30 English	14.00–14.30 English	15.30–16.00 Hindi
03.00–03.30 English	14.30–15.00 [1])	16.00–18.00 English
12.00–13.30 English		

[1]) Sun., Mo., Wed., Fri.: Tamil. Tues., Thurs., Sat.: Malayalam.
ANN.: "This is Colombo broadcasting the Voice of America"
INT.-SIG.: Choir of brass playing a 10 note version of "Columbia, the Gem of the Ocean". See U.S.A. – V. by QSL-card.

★ THE PEOPLE'S REPUBLIC OF CHINA ★

L.T.: GMT+8 h. – **L.:** Chinese. – **Rcvrs.:** 1.800.000.

BROADCASTING ADMINISTRATION (Go.)

ADDR.: Broadcasting Administration, Outside Fu Hsing Men, Peking. – **L.P.:** Dir. Gen.: Mei I.

HOME SERVICE

CENTRAL PEOPLE'S BROADCASTING STATION
Medium Waves: 20/150/300 kW.

kc/s	m	kc/s	m	kc/s	m	kc/s	m
560	535.7	700	428.6	1030	291.1	1300	230.8
570	526.3	720	416.7	1090	275.2	1360	220.6
600	500.0	730	411.0	1160	258.6	1430	209.8
640	468.8	1020	294.1	1230	243.9	1510	198.7

Short Waves: 15/120 kW

kc/s	m	kc/s	m	kc/s	m	kc/s	m
3915	76.63	7065	42.46	9765	30.72	15030	19.96
3960	75.76	7240	41.44	9860	30.43	15175	19.77
3985	75.28	7370	40.71	9972	30.08	15240	19.69
5030	59.64	7480	40.08	10260	29.24	15445	19.43
5125	58.54	7500	40.00	11100	27.03	15480	19.38
5220	57.47	7620	39.37	11290	26.57	15550	19.29
5860	51.20	7770	38.61	11455	26.19	15590	19.24
5880	51.02	9064	33.09	11515	26.05	15610	19.22
6065	49.46	9170	32.72	11600	25.86	15710	19.10
6100	49.18	9340	32.12	11630	25.79	15880	18.89
6225	48.19	9390	31.95	11675	25.70	17450	17.19
6595	45.48	9620	31.19	11690	25.66	17490	17.15
6790	44.18	9670	31.02	11860	25.30	17533	17.11
6810	44.05	9715	30.88	11925	25.16	17605	17.04
6890	43.54	9735	30.82	11935	25.14	17780	16.87
6995	42.89						

FIRST PRGR.: 20/150/300 kW on 560, 570, 640, 700, 1020, 1030, 1160 kc/s and in 49–41–31–25–19 m.b.
21.25–01.05 (also in 76 m.b.), 02.55–05.15 (also in 16 m.b.), 06.55–19.30 (also in 76 m. b.). – **N.:** 21.30. 22,30, 00.00, 04.15, 06.00, 08,00, 10.00, 14.30.
SECOND PRGR.: 20/150/300 kW on 600, 720, 730 kc/s and in 76–49–41–31–25–19 m.b.
21.55–07.00, 08.55–14.40. – **N.:** 22.00, 23.00, 01.00, 04.30, 11.30, 14.30, 15.30.
THIRD PRGR. (to the capital):
820 kc/s 365.9 m: 21.55–00.00, 01.00–01.10.
1040 – 288.5 – : 02.25–05.00, 06.15–08.50, 08.55–14.30.
1350 – 222.2 – : 21.55–01.00, 05.30–07.30, 11.00–13.10.
TO TAIWAN on 1090, 1230, 1300, 1360, 1430, 1510, 1540 kc/s and in 49–41–31–25–19–16 m.b.
D. Prgr.: 20.55–00.30, 01.55–05.00, 08.55–15.00. – **N.:** 20.40 (Std. Chi.), 21.50 (Amoy), 02.40 (Std. Chi.), 03.20 (Amoy), 09.40 (Std. Chi.), 10.20 (Amoy), 15.00 (Std. Chi.), 15.20 (Amoy).
TO NATIONAL MINORITIES:
Mongolian: 03.25–03.55 in 31–25–19 m.b. – 19.25–19.55 in 49–31–25 m.b. – **Chuang:** 22.30–23.00 in 31–25–19 m.b. – 11.00–11.30 in 31–25–19–16 m.b. – **Tibetan:** 05.30–06.00 in 25–19–16 m.b. – 12.00–12.30 in 31–25–19–16 m.b. – **Uighur:** 11.30–12.00 in 31–25–19–16 m.b. – 13.30–14.00 in 31–25–19–16 m.b. – **Korean:** 22.00–22.30 and 09.15–10.00 on 294.1 m
LOCAL STATIONS:

Name	kc/s	Name	kc/s	Name	kc/s
Shanghai	800, 920	Chinghai	1010, 1250	Shuchow	1450
	1040, 1110		6260, 6500	Wusih	1400
	1210, 1290		9455, 9500	Nantung	1480
	1500	Sinkiang	740, 910	Yangchow	1370
Hopei	1280		4220, 4500	Hanchow	1350
Shansi	1100		4770, 6280	Ningpo	650
Tientsin	790, 870		7050, 7385	Wenchow	1450
	920, 1070		9470, 10245	Kunming	1410
	1140, 1390	Ningshia	1130	In. Mongolia A	960
Paotin	1480	Sian	690, 980		1460, 4068
Hsihchiachuang	1210	Paochi	1310		6840, 6974
Chehlimumeng	1350	Lanchow	1400		9090, 9492
Liaoning	218, 1240	Sining	1450		11040
Kirin (prov.)	580	Kweichow	1000, 3260	In. Mong.B	820, 1380
Heilungkiang	250	Szechuan	1220, 7225	Huhehouteh	1210
	1200, 3270		11000	Paotow	670
	4960	Yunnan	810, 6925	Ulanchapumeng	1400
Shenyang	690, 780		9650	Chaowutameng	1490
Fushun	850	Kweiyang	1290	Ikechaomeng	1530
Penshi	1310	Tsunyi	1070	Silinkoulehmeng	3900
Anshan	950	Chengtu	750	Payinchaoyuanm.	4000
Fushun	1480	Chungking	1080, 1310	Chowshan	1550
Antung	890	Tsangchow	1440	Fuchow	1330
Chinchow	1410	Tangshan	1450	Amoy	1110
Lushun-Dairen	830	Changchiakou	780	Hofei	1270
Yingkou	1110	Chengteh	850	Wuhu	1490
Kirin (munic.)	1390	Tatung	1370	Tsingtao	850
Changchun	1330	Taiyuan	1530	Tsinan	750
Shihping	1130	Changchih	1500	Hupei 770, 3940,	5020
Tunghua	1340	Ichun	1450	Hun. 1260, 3225,	4990
Yenpien	930	Tsitsihar	740	Kwangtung 1060,	1340
Harbin	660	Hêkang	1410	Kwangsi 620,	1120
Maotangkiang	750	Kiangsu	680	Kiangsi	840
Chiamuszu	610	Chekiang	990	Honan	1420
Liuchow	1330	Fukien	880, 1470	Wuhan	1390
Kaifeng	970		4980	Hwangshih	1480
Tsengchow	970	Anhwei	940	Changsha	1530
Shensi	900	Shantung	1320	Canton 660, 790,	1400
Kansu	860, 1050	Nanking	1070	Swatow	950
	7280, 7324	Soochow	1330	Hainan	950
		Changchow	1520	Nanning	920

RELAY ST'S OF THE CENTRAL PEOPLE'S BROADCASTING ST.
FIRST PRGR.: Tsingtao 1490 kc/s – Wuhan 890 kc/s – Shenyang 980 kc/s – Sian 1490 kc/s.
SECOND PRGR.: Antung 1400 kc/s – Shanghai 610 kc/s.

FOREIGN SERVICE

Medium Wave: 1020 kc/s 294.1 m – **Short Waves:** 120/240 kW.

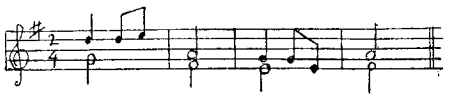
kc/s	m	kc/s	m	kc/s	m	kc/s	m	kc/s	m
5950	50.42	7150	41.96	9600	31.25	11945	25.12	15290	19.62
5985	50.13	7160	41.90	9665	31.04	11955	25.09	15417	19.46
6025	49.79	7200	41.67	9690	30.96	11965	25.07	15430	19.44
6035	49.71	7230	41.49	9755	30.76	11975	25.05	15520	19.33
6120	49.02	7265	41.29	9775	30.69	15060	19.92	17680	16.97
6145	48.82	7295	41.12	9785	30.66	15095	19.87	17730	16.92
6155	48.74	9460	31.72	11650	25.75	15115	19.85	17745	16.91
6180	48.54	9500	31.58	11750	25.53	15140	19.82	17765	16.89
6200	48.39	9510	31.55	11800	25.42	15190	19.75	17810	16.84
7080	42.37	9550	31.41	11820	25.38	15235	19.69	17835	16.82
7115	42.16	9555	31.40	11860	25.30	15250	19.67	17860	16.80
7125	42.11	9570	31.35	11885	25.24	15260	19.66	17885	16.78
7135	42.05	9585	31.30	11910	25.19	15270	19.65	17900	16.76

TO EUROPE
41,31,25,19 m.b.
English:
19.00–20.00
21.00–22.00
French:
18.30–19.00
20.30–21.00
Spanish:
20.30–21.00
Standard Chi.:
17.45–18.15
20.00–20.30
NO. AFRICA
N., MI. EAST
41,31,25,19,16mb
Arabic:
17.30–18.15
19.15–20.00
Turkish:
17.00–17.30
18.45–19.15
Persian:
15.30–16.00
18.15–18.45
Standard Chi.:
17.15–18.15
20.00–20.30
INDIA, PAKISTAN
31,25,19,16 m.b.
English:
15.30–16.30
SO. EA. ASIA
(Eastern Part)
25, 19 m.b.
INT.-SIG.:

English:
09.00–09.30
12.30–13.00
Indonesian:
00.00–00.30
08.30–09.00
10.30–11.30
14.00–14.30
Vietnamese:
05.00–05.30
11.30–12.00
13.00–14.00
14.45–15.30
Standard Chi.:
22.30–23.00
03.30–04.30
13.00–13.30
Amoy:
23.00–23.30
12.00–12.30
14.30–14.45
Kechia:
23.30–00.00
09.30–10.00
Chaochou:
04.30–05.00
Cantonese:
10.00–10.30
SO. EA. ASIA
(Western Part)
25, 19 m.b.
Burmese:
00.30–01.00
12.00–12.30
14.30–15.00

Cambodian:
23.30–00.00
11.00–11.30
Thai:
11.30–12.00
13.30–14.00
14.30–15.00
Laotian:
10.00–10.30
12.30–13.00
Standard Chi.:
22.30–23.00
13.00–13.30
Cantonese:
23.00–23.30
10.00–10.30
Chaochou:
00.00–00.30
14.00–14.30
Kechia:
09.30–10.00
Amoy:
10.30–11.00
NO., EA. ASIA
Japanese:
294.1,31,25 m.b.
21.00–21.30
11.00–11.30
12.15–13.00
13.30–14.00

Korean:
294.1,49,31 m.b.
21.30–22.00
11.30–12.15
13.00–13.30
14.00–14.30
NO. AM. (East)
25, 19, 16 m.b.
English:
02.00–02.30
02.30–03.30
NO. AM. (West)
English:
25, 19, 16 m.b.
Standard Chi.:
19, 16 m.b.
03.30–04.00
31, 25, 19 m.b.
Cantonese:
19, 16 m.b.
LATIN AM.
Spanish:
41,31,25,19 m.b.
22.00–23.00
25, 19, 16 m.b.
02.00–03.00



V. by QSL-card or letter.

✶ GOA (Portuguese India) ✶

L.T.: GMT + 5½ h. – L.: Portuguese, English, Indian/Pakistan languages. – Rcvrs.: 30.000.

EMISSORA DE GOA (Go., Comm.)
ADDR.: Emissora de Goa, C. de Goa. – L.P.: Dir. Tec.: V. A. G. Carvalho.
HOME SERVICE: 01.30–17.30.
557 kc/s 538 m 2.5 kW – 4880 kc/s 62.5 m; 6025 kc/s 49.79 m 9610 kc/s 31.22 m: 5/10 kW.
D. Prgr.: English: 06.30, 07.30, 09.30, 11.30, 12.30, 13.00, 15.10, 15.30. **Portuguese:** 05.30, 07.30, 11.30, 13.30.
ANN.: E.: "Radio Goa – Voice of Goa – Voice of Portugal". P.: "Emissora de Goa – Voz de Goa – Voz de Portugal". **E. Comm. Service:** "This is the Commercial Service of Radio Goa". – V. by letter.

★ HONG KONG (British) ★

L.T.: GMT+8 h. (Su. +9 h.). – L.: Chinese, English. – Rcvrs.: 70.000

RADIO HONGKONG (Go.)
ADDR.: Mercury House, P.O. Box 200, Hongkong. – Cable: "Broadcasts, Hong-Kong". – L.P.: Controller of Broadc.: D. E. Brooks. Dir. Prgr. Chinese: N. Y. Chow. Dir. Prgr. English: T. D. Brinton. Dir. Tec.: R. Winyard.
HOME SERVICE:
ENGLISH: ZBW 860 kc/s 348.8 m 2 kW: Mo.–Fri.: 23.00–01.00, 04.30–06.00, 09.30–15.30. Sat. 23.00–01.00, 04.30–15.30. Sun.: 00.00–15.30. – N.: 24.00, 05.15, 11.00 (BBC), 13.00 (BBC), 15.00 (BBC Newsreel). – Wrp.: 23.58, 10.58, 12.58, 13.13, 14.58.
French Half Hour: Tues. 09.00. – **Portuguese Half Hour:** Thurs. 09.00.
CHINESE: ZEK 640 kc/s 468.7 m 2 kW – ZBW 3 3940 kc/s 76.14 m 2.5 kW: 23.00–16.00. – N.: 00.00, 05.30, 10.00, 12.00*, 12.30*. – Wrp.: 23.58, 05.28, 11.58, 15.30.
* Rel. Far Eastern Station from London.
ANN.: E.: "This is Radio Hong Kong". – Chi.: "Ni do hai Heung Kong Kwong bor deen toy". – V. by QSL-card. R.p. desirable.

★ INDIA ★

L.T.: GMT+5½ h. – L.: English, Indian dialects. – Rcvrs.: 1.347.216.

ALL INDIA RADIO (Go.)
ADDR.: Akashvani (AIR) Headquarters, Akashvani Bhavan, Parliament Str., New Delhi. – Cable: "Airgeneral".
L.P.: Dir. Gen.: J. C. Mathur I.C.S. Dep. Dir. Gen.: Prgr.: B. P. Bhatt. Adm.: S. Parameshwaran. Inspection: V. K. Narayana Menon. Dir. Prgr.: U. Shankar. Dir. Tec.: A. C. Ramchandani. Dir News Sce.: M. Sivaram. Dir. External Sce.: Miss M. Masani.
STATIONS:
Medium Waves:

	kc/s	m	kW		kc/s	m	kW
North Regional				Kozhikode	680	441.2	1
Delhi A	886	338.6	50	Hyderabad	740	405.4	5
Delhi B	1070	280.4	20	Bangalore	610	491.8	50
Lucknow	760	394.7	50	Dharwar	1360	220.6	
Allahabad	980	306.1	50	**West Regional**			
Patna	620	483.9	20	Bombay A	1230	243.9	10
Jullundur	710	422.5	50	Bombay B	550	545.5	50
Jaipur	1120	267.9	1	Nagpur	590	508.5	50
Ajmer	600	500	20	Ahmedabad	850	352.9	50
Indore	650	461.5	20	Poona	800	375	5
South Regional				Rajkot	910	329.7	1
Madras A	940	319.1	20	**East Regional**			
Madras B	1420	211.3	20	Calcutta A	670	447.8	50
Tiruchirapalli	770	389.6	5	Calcutta B	1000	300.0	10
Vijayawada	840	357.1	20	Cuttack	965	310.9	20
Trivandrum	660	454.5	5	Gauhati A	780	384.6	10
Trichur	580	517.2	20				

Short Waves: Delhi VUD (Two 20 kW tr., three 100 kW tr.)

kc/s	m	kc/s	m	kc/s	m	kc/s	m
4940	60.73	9705	30.91	15125	19.83	17730	16.92
4960	60.48	9730	30.83	15130	19.83	17760	16.89
6040	49.67	9745	30.78	15135	19.82	17780	16.87
6190	48.47	9850	30.46	15140	19.82	17785	16.87
7105	42.22	11710	25.62	15155	19.80	17795	16.86
7125	42.11	11730	25.58	15160	19.79	17820	16.84
7140	42.02	11765	25.50	15170	19.78	17830	16.83
7170	41.84	11780	25.47	15235	19.69	17845	16.81
7180	41.78	11920	25.17	15240	19.69	17850	16.81
7290	41.15	11925	25.16	15270	19.65	17855	16.80
9505	31.56	11940	25.13	15370	19.52	21570	13.91
9575	31.33	11945	25.12	15480	19.38	21685	13.84
9630	31.15	12020	24.96	17705	16.94	21690	13.83
9675	31.01	15105	19.86	17720	16.93	21700	13.82

Lucknow (No. Reg. Sce.): 7250 kc/s 41.38 m – 9505 kc/s 31.56 m – 4880 kc/s 61.48 m.
Ranchi (No. Reg. Sce.): 0.25 kW: 4850 kc/s 61.86 m – 7160 kc/s 41.90 m
Simla (No. Reg. Sce.): 2.5 kW: 7170 kc/s 41.84 m – 4760 kc/s 63.03 m.
Bhopal (No. Reg. Sce.): 0.25 kW: 4840 kc/s 61.98 m – 5990 kc/s 50.08 m
Madras (So. Reg. Sce.): VUM– 10/100 kW
4920 kc/s 60.98 m – 7260 kc/s 41.32 m – 9590 kc/s 31.28 m
Hyderabad (So. Reg. Sce.): 4988 kc/s 60.14 m – 7140 kc/s 42.02 m – 9720 kc/s 30.86 m
Bombay (West Reg. Sce.): VUB– 10/100 kW
7240 kc/s 41.44 m – 9550 kc/s 31.41 m – 21650 kc/s 13.86 m – 21705 kc/s 13.82 m
Calcutta (Ea. Reg. Sce.): VUC 0.25/10 kW: 7210 kc/s 41.61 m – 9530 kc/s 31.48 m
Gauhati (Ea. Reg. Sce.): 4775 kc/s 62.83 m – 4940 kc/s 60.73 m – 6130 kc/s 48.94 m – 7125 kc/s 42.11 m – 9575 kc/s 31.33 m

HOME SERVICES

NORTH REG. SCE. (Gujerathi, Marathi, Kannada, Hindi, English):
Delhi A: 886 kc/s: D.: 01.30–03.30(Sun. 06.00), 07.00(Sun. 06.30)–08.20, 12.00–17.00(Sat. 17.30). – **4960 kc/s:** 14.30–17.00(Sat. 17.30). – **6190 kc/s:** 12.00–13.00. – **7290 kc/s:** 01.30–02.15. – **9630 kc/s:** Sun. 03.30–06.00. D. 07.00(Sun. 06.30)–08.00.
Delhi B: 1070 kc/s: 01.30–03.00(Sun. 06.00), 07.30–09.00(*09.30), 12.00–17.00. – **4960 kc/s:** 13.15–14.30. – **9630 kc/s:** 08.00–09.00 (*09.30). – **9705 kc/s:** 13.15–14.15.
Lucknow: 760/7250 kc/s: D. 01.30–03.30(Sun. 05.30). – **760/9505 kc/s:** 07.00–08.30(Sun. 09.00). – **760/4880 kc/s:** 12.00–17.00(Sat. 17.30).
Patna: 620 kc/s: 01.00–03.30, 07.00–08.30 (Sun. 06.30–09.00), 11.30–17.00(Sat. 17.30).
Ranchi: 7160 kc/s: Sun. 03.30–04.30. – **4850 kc/s:** 12.00–16.30(Sat. 17.30).
Jullundur: 710 kc/s: 01.30–03.30(Sun. 04.00), 06.30–08.30, 12.30–17.00 (Sat. 17.30).
Jaipur & Ajmer: 1120, 600 kc/s: 01.30–03.00, 07.00(*06.40)–08.30, 12.30–16.30(Sat. 17.30).
Simla: 7170 kc/s: 01.30–03.00. – **4760 kc/s:** 12.30–15.45(Sat. 17.30).
Indore: 650 kc/s: 01.30–03.30, 12.30–16.30(Sat. 17.30).
Bhopal: 5990 kc/s: 01.30–03.30. – **4840 kc/s:** 12.30–16.30(Sat. 17.30).
SOUTH REG. SCE. (Tamil, Telugu, Kannada, Malayalam, English):

Madras A: 940 kc/s: 01.30–02.45(Sun. 03.30), *07.00–09.50. Sun. 07.30–10.30. D. 12.00–17.00(Sat. 17.30).
Madras B: 1420/7260 kc/s: 01.30–02.45(Sun. 03.30). – **1420/9590 kc/s:** *06.30–09.50. Sun. 07.30–10.30. – **1420/4920 kc/s:** 12.00–17.00 (Sat. 17.30).
Tiruchirapalli: 770 kc/s: 01.30–03.00, 06.30/07.00/07.45–09.15/09.50/10.30, 12.00–16.30(Sat. 17.30).
Vijayawada: 840 kc/s: 01.00–02.45(*03.15), 07.00/07.30–09.00/09.50, 12.30–17.00(Sat. 17.30).
Trivandrum/Trichur: 660/580 kc/s: 01.45–03.00(Sun. 04.30), 07.00 (Sun. 05.30)–08.00, 10.00–11.00, 12.00–16.30(Sat. 17.30).
Kozhikode: 680 kc/s: 01.45–03.00, 07.00(Sun. 05.30)–08.00, 12.00–16.30(Sat. 17.30).
Hyderabad: 740/7140 kc/s: 01.20–03.30. – **740/9720 kc/s:** 03.30–06.00(Sun.), 07.00–08.30, 10.15–10.45. – **740/4988 kc/s:** 12.30–17.00 (Sat. 17.30).
Bangalore: 610 kc/s: 01.30–03.00, 06.30–08.30(Sun. 09.15), 12.30–17.00.
Dharwar: 1360 kc/s: 01.30–03.30, 12.30–17.00 (Sat. 17.30).
WEST REG. SCE. (Gujerathi, Marathi, Kannada, Hindi, English):
Bombay A: 1230 kc/s: 01.00–03.00, 06.30 (Sun. 05.00)–09.00, 12.30–17.30. – **7240 kc/s:** 01.00–02.15, 12.30–17.30. – **9550 kc/s:** 02.30–03.30, 06.30 (Sun. 05.00)–09.00. – **1230/9550 kc/s:** **10.30–10.50, **11.10–11.30.
Bombay B: 550 kc/s: 01.00–03.30 (Sun. 04.00), 06.30 (Sun. 05.30)–09.00 (Sun. 09.30), **10.30–10.50, **11.10–11.30. 12.30–17.30.
Nagpur: 590 kc/s: 01.45–03.15 (Sun. 05.15), 07.00–08.30, *06.30–09.00, 12.30–17.00 (Sat. 17.30).
Ahmedabad: 850 kc/s: 01.30–03.30 (Sun. 06.30), 07.00–08.30, 12.30–17.00 (Sat. 17.30).
Poona: 800 kc/s: 01.30–03.30 (Sun. 04.30), 07.00–08.30, 12.30–17.00 (Sat. 17.30).
Rajkot: 910 kc/s: 01.30–03.30 (Sun. 04.30), 12.00–17.00 (Sat. 17.30).
EAST REG. SCE. (Bengali, Oriya, Assamese, Hindi, English):
Calcutta A: 670 kc/s: 01.30–03.30 (Sun. 04.30), 11.30–17.00 (Sat. 17.30). – **9530 kc/s:** 01.30–03.30 (Sun. 03.15), 13.00–17.00 (Sat. 17.30). – **7210 kc/s:** 03.30–04.30, (Sun.) 11.30–12.45. **670 kc/s, 7210 kc/s:** 06.45/07.00–09.30 (Sat. 09.00).
Calcutta B: 1000 kc/s: 01.30–03.30 (Sun. 04.30), 07.00 (Sun. 06.45)–09.30 (Sat. 09.00), 11.30–17.00 (Sat. 17.30). – **9530 kc/s:** 03.30–04.30 (Sun) 07.00 (Sun. 06.45)–09.30 (Sat. 09.00), 11.30–12.45. – **7210 kc/s:** 01.30–03.30 (Sun. 03.15), 13.00–17.00 (Sat. 17.30).
Cuttack: 965 kc/s: 01.15–03.00 (Sun. 04.30), 07.30–08.30, 12.15–16.30 (Sat. 17.30).
Gauhati A: 780/7125 kc/s: 01.15–03.00 (Sun. 03.30), 12.00–13.00. – **780/9575 kc/s:** 07.30 (* 07.00)–08.30 (Sun. 09.30). **780 kc/s:** 13.00–13.30. – **780/4940 kc/s:** 13.30–15.00. – **780/4775 kc/s:** 15.00–16.00 (Sat. 17.30).
Gauhati B: 6130 kc/s: 01.45–02.45. – **9575 kc/s:** 11.00–13.15. – **4775 kc/s:** 13.15–15.00.
* On School broadcast days. ** Exc. Sun. and Holidays.

HOME NEWS in English:
02.30: Delhi B 280, 42, 31, 30, 25, 19 m.b.; Lucknow 394, 41 m.b.; Simla 41 m.b.; Bhopal 50 m.b.; Bombay A 244,41 m.b.; Hyderabad 405, 42 m.b.; Calcutta B 300, 41 m.b.; Madras B 211, 41 m.b. and all m.w.st.
08.00: Delhi B 280, 31, 30, 25, 19, 16 m.b.; Bombay A 244, 31 m.b.; Madras B 211, 31 m.b. – Calcutta B 300, 31 m.b.
12.30: Delhi B 280, 30, 25, 19, 16 m.b. – Bombay A 244, 41 m.b. – Madras B 211, 60 m.b. – Calcutta B 300, 31 m.b.
15.30: Delhi B 280, 49, 42, 30, 25, 19 m.b.; Lucknow 394, 61 m.b.; Simla 63 m.b.; Bhopal 61 m.b.; Bombay A 244, 41 m.b.; Madras B 211, 60 m.b. – Hyderabad 405, 60 m.b., and all m.w. st.
Wrp.: The main Weather Bulletin of the day is broadcast at the end of the mid-day transmission from 21 stations of All India Radio and by Simla, Rajkot, Bhopal, Indore, Dharwar and Ranchi stations (where there is no mid-day transmission) at the end of the night of the transmission in regional languages.

EXTERNAL SERVICES

GENERAL SCE (for Indians Overseas):

So. Ea. Asia	L.	kc/s	N.
23.15–00.15	Hindi	15370/17785	23.16–23.25
00.15–01.15	Tamil	17820/21700	00.16–00.25
Ea. Africa, Mauritius:			
03.30–04.00	Konkani	15105/17795	03.31–03.40
04.15–04.30	Gujerathi	17795/21700	04.15–04.30
04.30–04.40	English	15130/17795	04.30–04.40
04.40–05.30	Hindi	15130/17795	04.41–04.50
15.00–15.30	Hindi	15105/17830	15.01–15.10
15.45–15.55	English	15105/17830	15.45–15.55
16.30–17.15	Gujerathi	15270/17830	16.31–16.40
17.15–18.00	Konkani	15270	
EASTERN SCE.			
Burma			
00.30–00.40	English	15160/17795	00.30–00.40
00.40–00.50	Burmese	15160/17795	00.40–00.50
11.15–12.00	Burmese	17720/21570	11.16–11.25
China			
12.00–12.30	Cantonese	15125/17780	12.01–12.11
12.30–13.15	Kuoyu	15105/17780	12.31–12.41
No. Ea. Asia			
10.00–11.00	English	15105/17780	10.01–10.10
Australia/New Zealand			
10.00–11.00	English	17795/21690	10.01–10.10
Tibet, Sikkim, Bhutan			
12.45–13.15	Tibetan	15105/11780	12.46–12.55
Indonesia			
22.45–23.00	Indonesian	15105/17830	
12.00–12.30	Indonesian	17720/21570	12.01–12.11
East Asia			
11.15–11.30	French	15105/17855	11.19–11.29
So. Ea. Asia			
13.30–14.30	English	17760/21685	13.31–13.40
Pakistan			
03.20–03.30		7105/9675	
13.15–14.15		4960/9705	
WESTERN SCE			
Afghanistan			
03.30–03.45	Pushto	7105/9675	03.34–03.44
13.45–14.30	Pushto	9850	13.50–14.00
Iran (* not Sat.)			
03.45–04.00	Persian	15155/17830	03.50–03.59
16.15–17.15*	Persian	11765/15170	16.16–16.26
Near Ea., No. Africa.			
05.00–05.30	Arabic	15105/17705	05.05–05.15
17.30–18.30	Arabic	15105/11925	17.40–17.50
Ea. Africa.			
15.55–16.30	Swahili	15105/17830	15.56–16.06
We. Africa			
19.45–20.45	English	15170/17850	19.46–19.55
U.K. & We. Europe			
19.45–20.45	English	11710/9730	19.46–19.55
We. Asia			
18.45–19.30	French	11710/9705	18.50–19.00
Portugal, We. Europe			
19.00–19.30	Portuguese	11945/15135	19.01–19.10

The frequencies and wavelengths given above are those AIR expects to use during the month of Sept. 1958 and onwards. There will, however, be changes in frequencies from time to time and listeners are advised to listen to announcements which will cover all such changes. Detailed information can be obtained from the Programme Journal.
ANN.: Home Sce.: "This is All India Radio". **External Sce.:** "This is Delhi calling in the External Services of All India Radio".
INT.-SIG.: All India Radio's signature is a melody of eight second's duration repeated with intervals of 10 seconds in between. The Instruments used are violin, viola, cello and tampura.

V. by QSL-card. – **PUB.:** "India Calling" free of charge. – Weekly prgr. journal in English and fortnightly prgr. journals in Hindi, Urdu, Tamil, Telegu, Gujerathi and Bengali. Requests for free supply of copies may be made either to the Director of External Services of All India Radio, New Delhi or through the Indian Diplomatic Mission concerned. For Home prgr. journals request may be made to the Director General, All India Radio, New Delhi.

RADIO KASHMIR

SRINAGAR A: 1490 kc/s – 201.3 m 0.25 kW.
In English, Kashmiri, Urdu: 02.00–04.00, 07.00 (Sun. 06.30)–08.50, 12.30–17.30.

SRINAGAR B: 6110 kc/s 49.10 m 1 kW: 02.00–04.00. – 9660 kc/s 31.06 m 1 kW: 07.00 (Sun. 06.30)–08.50. – 4860 kc/s 61.73 m 1 kW: 12.30–17.30.

JAMMU: 990 kc/s 303.0 m 0.25 kW: 01.30–03.30 (Sun. 05.00), 06.30–08.00, 13.00–17.30.

★ INDONESIA ★

L.T.: See World Time Table. – **L.:** Indonesian, Hindi, Urdu, Arabic, Chinese, English. – **Revrs.:** 1.000.000.

RADIO REPUBLIK INDONESIA (Go.)

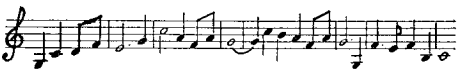
ADDR.: P.O. Box 157, Djakarta. – **Cable:** RRI.
L.P.: Dir. Gen.: R. Maladi. Dir. Home Sce.: Soekirman. Dir. Over-

seas Sce.: R. Soetojo. Dir. News Sce.: S. Hardjosoewito. Act. Dir. Tec. Sce.: R. M. Soenarjo. Dir. Gen. Affairs: R. S. Hardjoloekito. Dir. Pub. Rel.: R. M. Soemarmadi. Dir. Record Pressing Plant: O. Soemowidjojo.
Stations: Bandung: L. S. Tonaro. – Semarang: Soeprato. – Solo: O. Soemowidjojo. – Surabaja: R. M. Kindarsy. – Padang: R. Baheramsjah (acting). – Bukittingi: Soeprapto (acting). – Palembang: M. Koesoemo. – Bandjarmasin: Djaswadi. – Denpassar: R. B. K. Naftali. – Amboina: F. P. Likumahwa. – Pontianak: S. Karsomihardjo. – Kotaradja: A. Azis. – Menado: Parengkuan. – Sibolga: M. S. Simandjuntak. – Tandjung Pinang: Soemitro. – Tjerebon: Soetarjo. – Ternate: H. Sastrohamidjojo. – Djember: K. Albari. – Madiun: Mardjuki. – Kupang: Armirudin (acting). – Soa Siu: Masud (acting).

HOME SERVICES

Call	kc/s	m	kW
Djakarta (Java Central Station)			
YDB	2460	121.95	1
YDD	3277	91.54	1
YDB4	3375	88.89	7.5
YDB2	4805	62.42	7.5
YDF	6045	49.63	100
YDF5	7220	41.55	50
YDB3	7270	41.26	7.5
YDF6	9585	31.30	50
YDF6	9710	30.90	50
YDE	11770	25.49	7.5
Bandung (W. Jawa)			
YDA2	2420	123.96	0.25
YDA	3205	93.60	0.15
YDA3	4945	60.67	0.15
Djember (E. Java: relay)			
YDI	2330	128.74	0.3
Jogjakarta (C. Java)			
YDJ3	2350	127.65	0.1
YDJ	5060	59.29	7.5
YDJ2	7105	42.22	1
YDJ4	11785	25.46	1
Madiun (E. Java: relay)			
YDG	3286	91.26	0.3
Semarang (C. Java)			
YDH	2490	120.48	1
YDH2	3935	76.24	1
YDH3	7210	41.61	1
Surabaja (E. Java)			
YDI3	2370	126.50	1
YDI2	3975	75.48	5
YDI4	6120	49.02	5
Surakarta (C. Java)			
YDG2	2440	122.90	1
YDG	3305	90.77	5
YDG3	4875	61.54	5
Tjirebon (W. Java: relay)			
YDA6	2390	125.5	1
Padang (S. Sumatra)			
YDL2	2480	120.90	0.3
YDL	3960	75.76	0.3
YDL3	6170	48.62	1
Palembang (S. Sumatra)			
YDK2	2430	123.50	1
YDK	4855	61.79	1
Bukittinggi (N. Sumatra)			
YDM	3232	92.82	0.3
YDM2	5030	59.64	1
Kotaradja (N. Sumatra)			
YDN	2390	125.50	0.1
YDN2	4985	60.18	1
Medan (N. Sumatra)			
YDP2	3395	88.37	1
YDP	4930	60.85	7.5
YDP3	7240	41.44	7.5
YDP4	11925	25.16	7.5
Sibolga (Sumatra: relay)			
YDM6	2330	128.5	1
YDM7	3241	92.56	1
Bandjarmasin (Kalimantan)			
YDO	3250	92.31	0.5
YDO2	5970	50.25	1
Pontianak (Kalimantan)			
YDW	2350	127.6	1
YDW2	3345	89.69	1
Samarinda (Kalimantan: relay)			
YDY	3295	91.00	1
Makassar (Sulawesi)			
YDQ4	2490	120.5	0.3
YDQ	4750	63.16	3
YDQ3	7295	41.12	0.3
YDQ2	9550	31.41	0.5
Menado (Sulawesi)			
YDS	3214	93.34	1
YDS2	5990	50.08	5
Denpasar (Bali)			
YDU7	2420	123.96	1
YDU2	3945	76.05	1
YDU6	7118	42.14	1
Ambon (Maluku)			
YDR3	3241	92.56	1
YDR	4865	61.66	1
YDR2	7140	42.02	0.3
Ternate (Maluku: relay)			
YDZ	2460	121.95	1
YDZ2	3915	76.64	5
Tdj., Pinang (Sumatra: relay)			
YDX	3223	93.09	1
YDX2	4920	60.98	5
Kupang (Nusa Tenggara)			
YDV	3259	92.05	0.3
Singaradja (Nusa Tenggara)			
YDU	4840	61.98	1
Sumenep (Madura)			
YDI20	3355	89.41	0.3
Soa Siu (West Irian Province)			
YDT	3960	75.75	1

DJAKARTA: Nat. Prgr. on 2460, 6045, 11770 (only W. 04.30–07.15), 3375 kc/s (only D. 09.30–15.30). W.: 22.30–00.45, 04.30–07.15, 09.30–15.30. Sun.: 23.30–07.15, 09.30–15.30.
N.: 22.30 (W), 23.00, 00.30, 05.00, 06.00, 07.00, 11.30, 12.30, 14.30.
Mbg.: Sat. (fortnightly): 13.30–13.45. **Wrp.:** Thurs. 11.45.
Home Prgr. on 3277, 7270 kc/s.
School and educational broadcasts and broadcasts for foreigners.
W.: 22.30–00.45, 04.30–07.15, 09.30–15.30. Sun.: 23.30–07.15, 09.30–15.30. – **N.:** as for Nat. Prgr.
English: 12.30–12.58. – **N.:** 12.32, 12.55.
BANDUNG: W.: 22.27–00.30, 05.27–07.30, 09.30–15.30. Sun.: 23.27–07.30, 09.30–15.30.
DJEMBER: D.: 22.30 (Sun. 23.25)–00.45, 09.30–15.30.
JOGJAKARTA: W.: 22.27–00.40, 05.27–07.30, 09.27–15.30. Sun.: 23.27–07.30, 09.27–15.30.
MADIUN: W.: 22.28–00.45, 09.30–15.30. Sun.: 23.28–07.30, 09.30–15.30.
SEMARANG: W.: 22.27–00.45, 05.27–07.30, 09.27–15.30. Sun.: 23.27–07.30, 09.27–15.30.
SURABAJA: W.: 22.28–00.45, 05.25–07.30, 09.28–15.30. Sun.: 23.25–07.30, 09.28–15.30.
SURAKARTA: W.: 22.25–00.45, 05.25–07.30, 09.25–15.30. Sun.: 23.25–07.30, 09.25–15.30.
TJIREBON: W.: 22.28–00.45, 05.28–07.30, 09.30–15.30. Sun.: 23.28–07.30, 09.30–15.30.
PADANG: W.: 23.27–01.30, 06.27–08.30, 10.27–16.30. Sun.: 00.27–08.30, 10.27–16.30.
PALEMBANG: W.: 22.57–01.00, 05.57–08.00, 09.57–16.00. Sun.: 23.57–08.00, 09.57–16.00.
BUKITTINGGI: as Padang.
MEDAN: W.: 23.27–01.30, 06.27–08.15, 10.27–16.30. Sun.: 00.27–08.15, 10.27–16.30. – **SIBOLGA: D.** 10.27–16.30.
BANDJARMASIN: W.: 22.28–00.45, 05.28–07.30, 09.30–15.30. Sun.: 23.28–07.30, 09.30–15.30.
PONTIANAK: D. 09.30–15.30.
SAMARINDA: D. 09.25–15.30.
MAKASSAR: W.: 21.57–24.00, 04.57–07.00, 08.57–15.00. Sun.: 22.57–07.00, 08.57–15.00.
MENADO: W.: 22.00–24.00, 05.00–06.42, 09.00–15.00. Sun.: 23.00–06.42, 09.00–15.00.
DENPASSAR: W.: 22.25–00.45, 05.25–07.30, 09.30–15.30. Sun.: 23.25–07.30, 09.30–15.30.
AMBON: W.: 21.30–23.40, 04.27–06.00, 08.30–14.30. Sun.: 22.30–06.00, 08.30–14.30.
TERNATE: D. 09.27–14.45.
ANN.: Nat. Prgr.: Indonesian: "Inilah Radio Republik Indonesia di... (name of the station)"
INT.-SIG.: Nat. Prgr.:



played on hammond organ by Sudarnoto.
V. by QSL-card or by letter.

FOREIGN SERVICE FROM DJAKARTA

	kc/s	m	kW		kc/s	m	kW
YDD	3277	91.55	1	YDF2	11770	25.49	100
YDF5	7220	41.55	50	YDE	11770	25.49	7.5
YDB3	7270	41.27	7.5	YDF2	11789	25.46	100
YDF6	9585	31.30	50	YDF3	11795	25.43	100
YDF6	9710	30.90	50	YDC	15150	19.80	100
YDF8	9865	30.40	50	YDF4	17810	16.84	50

English: 11.00–12.00 (Au., NZ., Pa.), 14.30–15.30 (So.Ea.As., India) 9710/11770 kc/s; 19.00–20.00 (Eu, NZ) 9865/11770 kc/s.
French: 15.30–16.30 (Indo-China, So.Ea.As.) 3277/7270 kc/s; 17.00–18.00 (Eu, M.Ea., Af.) 9865/11770 kc/s.
Indonesian: 18.00–19.00 9865/11770 kc/s. (M.Ea., Eu.); 01.00–02.00 (Am., So.Ea.As.) 9710/11770 kc/s.
Chinese: 12.00–13.00 (Ea.As.) 9710/11770 kc/s.
Arabic: 13.00–14.00 (So.Ea.As.) 9710/11770 kc/s; 16.15–17.00 (M.Ea.) 9865/11770 kc/s.
Hindi: 15.30–16.00 (So. & So.Ea.As., Af.) 9710/11770 kc/s.
Urdu: 14.00–14.30 (So. & So.Ea.As.) 9710/11770 kc/s.
ENGLISH PRGR.:
N.: 11.15, 14.45, 19.15. – **"Indonesia in Word and Music":** Mo. 11.42, 15.12, 19.42. – **"Spotlight on Indonesia":** Tues.: 11.35, 15.05, 19.35. – **"My Country and my People":** Thurs.: 11.35, 15.05, 19.35. – **"Indonesian Music":** Sun.: 11.27, 14.57, 19.27. Fri.: 11.02, 14.32, 19.02. Sat.: 11.43, 15.13, 19.43. – **"Turntable Time":** Tues.: 11.43, 15.13, 19.43. (Request Prgr. consisting of Western songs and popular Indonesian tunes.).
INDONESIAN PRGR.: N.: 18.15, 18.55, 01.15, 01.55.
ANN.: E.: "This is the Voice of Indonesia broadcasting from Djakarta". **F.:** "Ici Djakarta, la voix de l'Indonésie".
INT.-SIG.: Some instrumental music in accordance with the genre of the next prgr.
V. by QSL-card or by letter. Listeners reports are welcome.
PUB.: Weekly: "Pedoman Radio" (home prgr.), "Berita Radio" (N. on broadc. in Indonesia). – Monthly: "Voice of Indonesia" (Foreign broadc. in Indonesia, Hindi, Urdu, Chinese, Arabic, English, French, Dutch); "Saut Indonesia" in Arabic. – Write to "Voice of Indonesia", RRI. – P.O. Box 157, Djakarta.

MILITARY STATION (Indonesian Air Force)
ADDR.: Biro Penerangan Angkatan Udara, Medan Merdeka Utara 15, Djakarta. – **HOME SCE. in Indonesian:** 2475 kc/s 121.2 m 0.5 kW. YEX29 11940 kc/s 25.13 m 7.5 kW: 09.30–13.30.
ANN.: "Inilah radio Angkatan Udara Republik Indonesia di Djakar . – **V.** by letter.

★ JAPAN ★

L.T.: GMT+9 h. – **L.:** Japanese. – **Rcvrs.:** 14.831.765.

NIPPON HOSO KYOKAI (Public Corporation, non-commercial) (The Japan Broadcasting Corporation)
ADDR.: No. 2, 2-chome, Uchisaiwai-cho, Chiyoda-ku, Tokyo.
Cable: Radio NHK, Tokyo.
L.P.: Chairman, Board of Governors: Shinnosuke Abe. Pres., NHK:

Hideo Nomura. Vice Pres.: K. Mizokami. Man. Dir.'s: S. Inaba, Y. Maeda, Y. Tanabe. Auditors: M. Kato, Y. Hashimoto. Dir. Planning Dept.: Y. Kasuga. Dir. Auditing Chamber: T. Akimoto. Dir. Prgr. Examination Chamber: M. Miyagawa. Dir. Gen. Affairs Dept.: A. Takano. Dir. Finance Dept.: K. Sudo. Dir. Public Rel. Dept.: S. Shibata. Dir. Prgr. Management Dept.: M. Akagi. Dir. Education Dept.: K. Kawakami. Dir. Entertainment Dept.: Y. Yoshikawa. Dir. News Dept.: K. Sugimoto. Dir. News Commentators' Room: G. Fujise. Dir. International Broadc. Dept.: I. Matsui. Dir. Radio & TV Culture Research Institute: I Nihira. Dir. Eng. Dept.: F. Mikuma. Dir. Tech. Operation Dept.: H. Goto. Dir. Tech. Research Lab.: S. Shima.

STATIONS:

MEDIUM WAVES:

The medium-wave (535–1650 kc/s) transmitters are used for domestic radio service in the 1st and 2nd networks, both extensive enough to place the entire country under coverage.

Stations	Call	kc/s	kW	Stations	Call	kc/s	kW
Tokyo 1	JOAK	590	100	Matsue 2	JOTB	1330	10
– 2	JOAB	690	100	Tottori 1	JOLG	1260	0.5
Nagano 1	JONK	840	0.5	– 2	JOLC	1490	0.5
– 2	JONB	1420	0.5	Onomichi 1	JODP	1200	1.
Niigata 1	JOQK	850	10	– 2	JODD	1600	0.5
– 2	JOQB	1030	10	Hofu 1	JOUG	680	1
Kofu 1	JOKG	620	0.5	– 2	JOUC	1420	0.1
– 2	JOKC	1420	0.5	Hamada 1	JOTY	1040	0.05
Matsumoto 1	JOSG	780	0.5	– 2	JOTT	1360	0.05
– 2	JOSC	1490	0.5	Hagi 1	JOUQ	960	0.5
Iida 1	JOSQ	840	0.05	– 2	JOUZ	1440	0.5
– 2	JOSZ	1530	0.05	Masuda 1	JOTU	1340	0.1
Ina 1	JOST	1340	0.05	– 2	JOTS	1540	0.1
– 2	JOSY	1540	0.05	Tsuyama 1	JOKU	1160	0.05
Komuro 1	JONQ	1040	0.05	– 2	JOKT	1540	0.05
– 2	JONZ	1540	0.05	Shobara 1	JOFS	1160	0.05
Takata 1	JOQX	1160	0.1	– 2	JOFU	1360	0.05
– 2	JOQV	1360	0.1	Yonago 1	JOLQ	1200	0.5
Okaya-				Tsuwano 1	JOTI	1160	0.1
Suwa 1	JOSU	1160	0.1	Kurayoshi 1	JOLS	1040	0.1
– 2	JOSI	1360	0.1	Shimo-			
Kiso-Fuku-				noseki 1	JOUI	1160	0.1
shima 1	JOSS	1040	0.1	Niimi 1	JOKI	1340	0.1
Osaka 1	JOBK	670	100	**Kumamoto 1**	JOGK	930	10
– 2	JOBB	830	100	– 2	JOGB	1350	10
Kyoto 1	JOOK	1320	0.5	Fukuoka 1	JOLK	610	100
– 2	JOOB	1490	0.5	– 2	JOLB	870	100
Fukuchiya 1	JOOT	1040	0.05	Kokura 1	JOSK	540	0.1
– 2	JOOS	1360	0.05	– 2	JOSB	720	0.1
Toyooka 1	JOBU	1160	0.05	Nagasaki 1	JOAG	660	0.5
– 2	JOBV	1540	0.05	– 2	JOAC	1470	0.5
Hikone 1	JOBS	1340	0.1	Kagoshima 1	JOHG	980	10
Shingu 1	JOBQ	1040	0.05	– 2	JOHC	1410	10
– 2	JOBY	1360	0.05	Miyazaki 1	JOMG	620	0.5
Maizuru 1	JOOQ	1360	0.05	– 2	JOMC	790	0.5
– 2	JOOZ	1540	0.05	Oita 1	JOIP	660	0.5
Tanabe 1	JOBT	1160	0.1	– 2	JOID	1470	0.5
Nagoya 1	JOCK	730	10	Saga 1	JOSP	780	0.5
– 2	JOCB	910	10	– 2	JOSD	1420	0.5
Kanazawa 1	JOJK	1230	10	Sasebo 1	JOAT	540	0.1
– 2	JOJB	1390	10	– 2	JOAY	720	0.1
Shizuoka 1	JOPK	880	3	Hitoyoshi 1	JOGQ	1160	0.05
– 2	JOPB	1080	1	– 2	JOGY	1360	0.05
Fukui 1	JOFG	600	0.5	Nobeoka 1	JOMT	540	0.5
– 2	JOFC	1530	0.5	– 2	JOMX	1420	0.5
Hama-				Saeki 1	JOIS	1160	0.05
matsu 1	JODG	620	0.5	– 2	JOIZ	1440	0.05
– 2	JODC	790	0.5	Miyako-			
Toyama 1	JOIG	600	0.5	nojo 1	JOMQ	1340	0.1
– 2	JOIC	1530	0.5	Hita 1	JOIV	1040	0.05
Takayama 1	JOCQ	620	0.5	**Sendai 1**	JOHK	890	10
– 2	JOCZ	790	0.5	– 2	JOHB	1090	10
Ueno 1	JOCT	1160	0.1	Akita 1	JOUK	1290	1
Owase 1	JOCU	1160	0.1	– 2	JOUB	1520	1
– 2	JODS	1540	0.1	Yamagata 1	JOJG	540	1
Tsuruga 1	JOFT	1040	0.05	– 2	JOJC	1470	0.5
– 2	JOFZ	1420	0.05	Hirosaki 1	JORG	1320	0.3
Obama 1	JOFY	1160	0.05	– 2	JORC	1600	0.3
– 2	JOFQ	1360	0.05	Morioka 1	JOQG	650	10
Toyohashi 1	JOCS	1160	0.1	– 2	JOQC	990	10
– 2	JOCV	1360	0.1	Fukushima 1	JOFP	620	0.1
Nanao 1	JOJU	1340	0.1	– 2	JOFD	720	0.1
Hiroshima 1	JOFK	770	10	Kooriyama 1	JOCP	660	1.
– 2	JOFB	1050	10	– 2	JOCD	1510	1
Okayama 1	JOKK	960	1	Aomori 1	JOTG	700	0.5
– 2	JOKB	1440	0.5	– 2	JOTC	790	0.5
Matsue 1	JOTK	1110	10	Tsuruoka 1	JOJP	660	0.5

Stations	Call	kc/s	kW	Stations	Call	kc/s	kW
Tsuruoka 2	JOJD	1470	0.5	Kitami 1	JOKP	1170	10
Kamaishi 1	JOQS	1200	0.05	– 2	JOKD	1370	10
– 2	JOQZ	1470	0.05	Muroran 1	JOIU	960	0.5
Taira 1	JOHQ	1040	0.05	– 2	JOIT	1080	0.5
– 2	JOHZ	1540	0.05	Rumoi 1	JOIX	1340	0.05
Hachinohe 1	JOTQ	1260	0.5	Rumoi 2	JOCI	1540	0.05
– 2	JOTZ	1490	0.5	Wakkanai 1	JOIQ	1300	0.05
Waka-				– 2	JOIY	1470	0.05
matsu 1	JOHT	1160	0.05	Esashi 1	JOVQ	1040	0.05
– 2	JOHY	1540	0.05	– 2	JOVZ	1360	0.05
Odate 1	JOUT	1160	0.05	Nayoro 1	JOCY	780	1
– 2	JOUV	1360	0.05	– 2	JOAZ	1530	1
Miyako 1	JOQT	1040	0.05	**Matsuyama 1**	JOZK	1300	1
– 2	JOQU	1360	0.05	– 2	JOZB	1510	0.5
Yonezawa 1	JOJQ	1040	0.05	Kochi 1	JORK	1150	10.
– 2	JOJZ	1360	0.05	– 2	JORB	1430	10.
Yokote 1	JOUS	1160	0.05	Tokushima 1	JOXK	1260	0.5
– 2	JOUY	1360	0.05	Taka-			
Shinjyo 1	JOJS	1340	0.05	matsu 1	JOHP	540	0.5
– 2	JOJT	1540	0.05	Uwajima 1	JOZU	1040	0.05
Kesen-				– 2	JOZY	1360	0.05
numa 1	JOHS	1160	0.05	Niihama 1	JOZQ	1340	0.05
Ofunato 1	JOQY	1040	0.05	– 2	JOZZ	1540	0.05
Sapporo 1	JOIK	570	10	Imabari 1	JOZT	1160	0.05
– 2	JOIB	750	10	Nakamura 1	JORQ	1200	0.5
Hakodate 1	JOVK	600	0.5	– 2	JORY	1600	0.5
– 2	JOVB	1440	0.5	Yawata-			
Asahikawa 1	JOCG	620	0.5	hama 1	JOZS	1340	0.05
– 2	JOCC	1420	0.5	– 2	JOZI	1540	0.05
Obihiro 1	JOOG	960	0.5	Yusuhara 1	JORS	1160	0.1
– 2	JOOC	1080	0.5	Johen 1	JOZV	1340	0.05
Kushiro 1	JOPG	840	0.5	Ikeda 1	JOXI	1160	0.1
– 2	JOPC	1420	0.5				

FM: JOAK–FMX Tokyo 87.3 mc/s, JOBK–FMX Osaka 88.1 mc/s 1 kW exp.: 04.00–07.00.

HOME SERVICE

1st Network 20.00–15.00. **Japanese Music:** Mo. 14.10–14.30, Tues. 13.30–13.45. – **N.:** D. every h. on the h., exc. 11.00 and 15.00, and also daily from 14.55. – **Commentary:** D. 12.05, W. 02.05. – **Mbg.:** W. 21.50. – **Wrp.:** W. 21.13, 00.05, 02.57, 08.55, 13.07, 14.05. – **Weather Map:** W. 07.05.

2nd Network: 20.30–15.00. **Japanese Music:** Mo.-Fri. 05.30–06.00, Fri. 12.00–12.55, Sat. 14.00–14.30. – **N.:** D. 21.55, 03.55, 11.00. – **Weather Map:** D. 00.00, 13.45. – **English:** W. 09.00–09.05. The two networks together are on the air for a grand total of 37.5 hours. Ratios of air time allocated to various types of prgrs. are 16% for news, 19.2% for education, 41.8% for information, 15.2% for entertainment, and 7.8 % for sports – School programmes are specially presented over the 2nd network for 3.5 hours between 18.00 and 23.00.

FOREIGN SERVICE

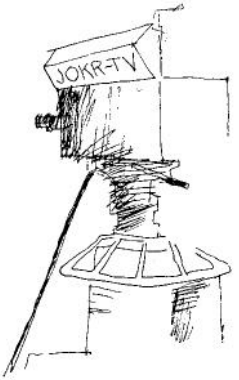
STATIONS: 50 or 100 kW.

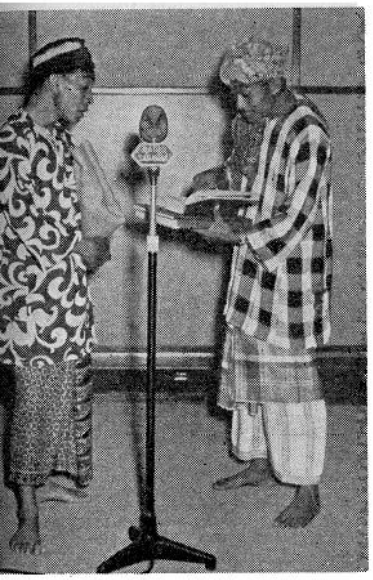
	kc/s	m		kc/s	m		kc/s	m
JOA	6069	49.43	JOA8	11725	25.58	JOB21	15325	19.58
JOB	6080	49.34	JOB6	11725	25.58	JOA23	17755	16.89
JOB2	7180	41.78	JOB4	11780	25.47	JOA9	17785	16.87
JOA2	7242	41.42	JOB23	11800	25.42	JOB7	17785	16.87
JOB8	7242	41.42	JOA26	11940	25.13	JOA22	17795	16.86
JOB20	9525	31.50	JOB22	11965	25.07	JOA20	17825	16.83
JOB3	9675	31.01	JOA6	15135	19.82	JOA21	17845	16.81
JOA3	9695	30.94	JOB9	15225	19.70	JOA24	17855	16.80
JOA4	11705	25.63	JOB5	15235	19.69	JOB24	21620	13.87

Target Areas:
I = India, Pakistan, Ceylon. II = Near East. III = Ea. No. America. IV = We.No. America. V = Eu., Soviet Union. VI = Hawaii. VII = So. America. VIII = Au., N.Z. IX = No. & C. China. X = Philippines & Indonesia. XI = So. China, Indo-China, Thai, Burma. XII = Ea. Asia.

Times	Area	Winter[1] m.b.	Equinox[2] m.b.	Summer[3] m.b.	Languages
15.30–16.30	I	31–25	25–19	19–16	a), Engl., Japanese
17.30–18.30	II	31–25	25–19	19–16	b), Engl., French, Japan.
23.00–24.00	III	16–13	19–16	19–16	English, Japanese
05.00–06.00	IV	31–25	25–19	19–16	English, Japanese
06.30–08.30	V	19–16	19–16	16–13	*)
07.00–08.00	VI	19–16	19–16	19–16	English, Japanese
09.00–10.00	VII	31–25	31–25	31–25	c), Spanish, Portuguese
09.00–10.00	VIII	25–19	25–19	25–19	English, Japanese
10.30–12.30	IX	31–25	31–25	31–25	Chinese, Russian, Japan.
11.30–12.30	X	19–16	19–16	19–16	English, Indonesian
13.00–15.00	XI	25–19	25–19	25–19	**)
13.00–14.00	XII	25	25	25	Japanese

[1]) Nov.-Feb. [2]) March/April, Sept./Oct. [3]) May-August
a) Hindi, Urdu b) Arabic c) Japanese *) Russian, Italian, German French, English, Japanese **) Standard Chinese, Fukienese, Cantonese, French, Thai, English.





1 JORK-TV, Japan: Broadcasting of Kabuki-Drama "Chushingura".

2 Circuito CMQ, Cuba: CMQ transmitter-building at Arroyo-Arenas outside Habana.

3 Radio Sarawak: Music-Hall: Two local Malays record their clown act which is very popular with Malay listeners throughout Sarawak.

4 Tanganyika Broadcasting Corporation: One of the Highlights of the Swahili Broadcasts is Comedy. The picture shows three wellknown personalities rehearse a sketch for a monthly variety show.

5 New Zealand Broadcasting Service: A group of Maori performers such as are heard in the weekly Maori music series, Thursdays and Sundays.

JAPANESE MUSIC:

I. Hindi Wed., Sat. 15.40
English 1, 3, 5th Sun. 16.05
II. French Sun. 17.55
III. English Thurs. 23.35
V. Russian Tues. 06.50
Italian 1, 3, 5th Sun. 08.05
French Mo. 07.40
VII. Spanish Sun. 09.10
VIII. English Fri 09.35
X. Chinese Thurs. 11.40
XI. French Mo. 13.35
Chinese Sun. 13.10
Thai Wed., Fri. 14.15

NEWS:

I. English: D. 15.50, Tues. 16.05. Hindi: D. 15.30. Japanese: D. 16.20. Urdu: 1, 3, 5th Sat. 16.00. Urdu/English: 2, 4th Sat. 16.00.
II. Arabic: D. 17.30. English: D. 18.05. French: D. 17.45. Japanese: D. 18.20.
III. English: D. 23.00, Tues., Sat. 23.20. Japanese: D. 23.50.
IV. English: D. 05.00, Tues., Sat. 05.15. Japanese: D. 05.30.
V. English: D. 07.50, Wed. 08.05. German: D. 07.05, Thurs. 07.15. French: D. 07.30, Thurs. 07.40. Russian: D. 06.30, Wed. 06.50. Japanese: D. 08.20. Italian: 1, 3, 5th Sun. 08.00. Italian/English: 2, 4th Sun. 08.00.
VI. English: D. 07.00. Tues., Sat. 07.15. Japanese: D. 07.30.
VII. Portuguese: D. 09.20, 2, 4th Wed. 09.10. Spanish: D. 09.00, 2, 4th Wed. 09.10. Japanese: D. 09.30.
VIII. English: D. 09.00, Wed., Sun. 09.20. Japanese: D. 09.50.
IX. Russian: D. 11.50. Wed. 12.05. Standard Chinese: D. 10 30, 11.30. Wed., Sun. 10.50. Japanese: D. 12.20.
X. English: D. 11.30, Wed., Sun. 11.45. Indonesian: D. 12.00, Wed. 12.10.
XI. Standard Chinese: D. 13.00, Thurs. 13.10. French: D. 13.45, Thurs. 13.35. English: D. 14.30. Wed., Sun. 14.45. Fukienese: D. 13.25. Cantonese: D. 13.35. Thai: D. 14.05.
XII. Japanese: D. 13.00, 13.50.

REQUEST PROGRAMMES:

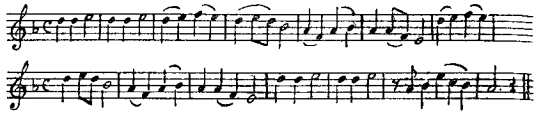
I. English Mo. 16.05
II. French Sat. 17.55
III. English Mo. 23.35
IV. English Mo. 05.15
V. English Tues. 08.05
French Sun. 07.40
VI. English Mo. 07.15
VIII. English Tues. 09.35
IX. Standard Chin. Sat. 11.20
X. Indonesian Mo., Fri. 12.10
English Tues. 11.45
XI. English Tues. 14.45
Thai Sat. 14.15

DX-PROGRAMMES, in English (exc. where indicated).

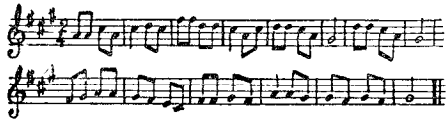
III. 4th Fri. 23.20–23.35
IV. 4th Fri. 05.15–05.30
V. 4th Fri. 06.50–07.05 (Russian), 4th Sat. 08.05–08.20
III. 4th Sat. 09.20–09.35

ANN.: Home Service: The call sign and the station name are announced at the commencement and end of each transmission. At intervals between programmes, an announcement, "NHK" is made – On the 1st network, the call-sign and the station name are announced just before timecast – On the 2nd network, the call-sign and the station name are announced every hour at half past. – Foreign Service: English: "This is Radio Japan, the overseas broadcasting service of NHK. We are broadcasting to... ("Target area") – French: "Ici Radio Japon... (target area)" – German: "Hier ist Tokyo, der japanische Rundfunk... (target area)" – Italian: "Buon giorno, sign. radioascoltatori Italiani. Qui Radio Giappone – Reparto Servizio Internazionale di NHK...". – Spanish: "Aqui Radio Japon...". – Portuguese: "Estão ouvindo a Radio Japão..." – Indonesian: "Inilah Radio Djepang, siaran internasional dari NHK di Tokio..."

INT.-SIG.: Home Service: Both on the 1st and the 2nd networks, a musical sign is beamed on a celeste before commencing broadcasting. No interval signal is used since both the 1st and the 2nd networks are continuously on the air. – Foreign Service: Opening music "Sekura":



Interval signal music "Kazoe Uta":



PUB.: NHK Shimbun or NHK Radio & TV News (weekly) – NHK Hoso Bunka or NHK Broadcast Culture (monthly) – Broadcast Engineering (monthly) – NHK Technical Journal (quarterly) – NHK Year Book (annual) – Prgr. schedules are published annually in April, when the schedules are revised. The language used is Japanese – The prgr. sched. Overseas Sce. is published every time the prgr.s are changed. The Foreign Sce. sched. is distributed upon request. No return postage required. – F.PL.: Four 100 watt m.w. stations are expected to be established by the end of March 1959. Studies are also in progress on measures designed to eliminate areas having difficulty in receiving broadcasts. – V. by QSL-card.

THE NATIONAL ASSOCIATION OF COMMERCIAL BROADCASTERS IN JAPAN.
ADDR.: 8–7 Ginza-Nishi, Chuo-ku, Tokyo. – Cable: "Kyobashi Minporen (NARTB JAP)". – L.P.: Pres.: T. Adachi. Vice-Pres.: Radio: Takahashi, TV: H. Kaneko. Sec. Gen.: S. Sakai.

RADIO JAPAN CALLS YOU TO JAPAN

RADIO JAPAN, NHK's INTERNATIONAL BROADCASTING SERVICE

DIRECTIONS:

India, Pakistan & Ceylon
Near East
Eastern North America
Western North America
Europe & Soviet Union
Hawaii
South America
Australia & New Zealand
North China
Central China
Philippines & Indonesia
East Asia
South China
Indo-China, Thailand & Burma

NATIONAL NETWORKS

1st and 2nd radio networks feed the entire people of Japan.

Central stations 8
Local stations 40
Rebroadcasting stations....61

21 NHK TV stations cover Japan

TOKYO, NAGANO, OSAKA, KAINAN, NAGOYA, NIIGATA, KANAZAWA, TOYAMA, SHIZUOKA, HIROSHIMA, KURE, OKAYAMA, KUMAMOTO, FUKUOKA, KOKURA, KAGOSHIMA, SENDAI, TAIRA, SAPPORO, HAKODATE, MATSUYAMA

NHK
(Japan Broadcasting Corporation)

No. 2 2-chome Uchisaiwai-cho Chiyoda-ku, Tokyo, Japan.

STATIONS: Medium Waves.

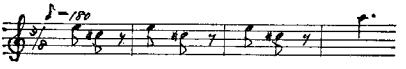
Call	kc/s	kW	Location
1) JOCR	560	3	Kobe
2) JODF	580	1	Morioka
3) JOGF	580	1	Oita
4) JOJF	740	1	Kofu
5) JOLR	740	1	Toyama
6) JOMR	760	1	Kanazawa
7) JOCF	760	5	Kagoshima
8) JOQN	800	0.1	Kitami
9) JOIO	800	0.1	Kesennuma
10) JOTO	800	0.1	Asamai
10) JOTE	800	0.1	Odate
11) JOWE	800	0.1	Aizu-Wakamatsu
11) JOWW	800	0.1	Taira
12) JOSE	800	0.1	Okaya
12) JOSL	800	0.1	Ueda
13) JODE	800	0.1	Nagaoka
14) JOBO	800	0.1	Maizuru
15) JOYO	800	0.1	Tsuyama
16 JOAL	800	0.1	Niihama
17) JOIL	800	0.1	Kokura
8) JOHE	860	1	Asahikawa
18) JORR	860	1	Fukui
19) JOXR	860	1	Tsu
8) JOHO	900	1	Hakodate
20) JOHF	900	1	Yonago
21) JOEF	920	1	Yamagata
22) JOZR	920	1	Kochi
10) JOTR	940	1	Akita
23) JOJR	940	1	Tokushima
24) JOKR	950	50	Tokyo
11) JOWO	1000	1	Koriyama
25) JOPF	1000	1	Tokuyama
26) JONR	1010	10	Osaka
8) JOTL	1060	0.1	Nayoro
27) JOGO	1060	0.1	Hachinohe
27) JOGE	1060	0.1	Hirosaki
21) JOEL	1060	0.1	Tsuruoka
11) JOWR	1060	0.1	Fukushima
2) JODL	1060	0.1	Maesawa
2) JODM	1060	0.1	Kamaishi
12) JOSO	1060	0.1	Matsumoto
12) JOSW	1060	0.1	Iida
4) JOJL	1060	0.1	Fusi-Yoshida
28) JOAO	1060	0.1	Takayama
6) JOMO	1060	0.1	Nanao
29) JOVO	1060	0.1	Hamamatsu
15) JOYE	1060	0.1	Niimi
20) JOHL	1060	0.1	Tottori
25) JOPL	1060	0.1	Hagi
23) JOJO	1060	0.1	Ikeda
22) JOZO	1060	0.1	Nakamura
30) JOFO	1060	0.1	Kokura
31) JOUO	1060	0.1	Saga
32) JOBL	1060	0.1	Hitoyoshi
33) JONL	1060	0.1	Nobeoka
28) JOAR	1070	10	Nagoya
12) JOSR	1100	1	Nagano
32) JOBF	1100	1	Kumamoto
27) JOGR	1120	1	Aomori
16) JOAF	1130	1	Matsuyama
34) JOQR	1130	50	Tokyo
14) JOBR	1140	3	Kyoto
8) JOHR	1190	10	Sapporo
35) JOOR	1210	10	Osaka
13) JODR	1220	1	Niigata
31) JOUR	1220	1	Nagasaki
36) JOER	1240	3	Hiroshima
9) JOIR	1250	10	Sendai
30) JOFR	1270	10	Fukuoka
8) JOQL	1280	1	Kushiro
15) JOYR	1280	1	Okayama
37) JOLF	1310	50	Tokyo
38) JOUF	1380	3	Osaka
29) JOVR	1400	1	Shizuoka
31) JOMF	1400	1	Sasebo
17) JOIF	1450	10	Fukuoka
8) JOHW	1460	1	Obihiro
39) JOOF	1460	1	Gifu
33) JONF	1480	1	Miyazaki
40) JORF	1480	1	Yokohama
8) JOQF	1500	1	Muroran
25) JOPM	1500	0.1	Shimonoseki
41) JOKF	1500	1	Takamatsu
8) JOGM	1560	0.1	Abashiri
13) JODO	1560	0.1	Naoetsu
28) JOAE	1560	0.1	Toyohashi
18) JOPO	1560	0.1	Obama
29) JOVE	1560	0.1	Mishima
19) JOXO	1560	0.1	Ueno
14) JOBE	1560	0.1	Fukuchiyama
20) JOHM	1560	0.1	Hamada
16) JOAM	1560	0.1	Uwajima
41) JOKL	1560	0.1	Kan-Onji
3) JOGL	1560	0.1	Nakatsu
33) JONM	1560	0.1	Miyakonojo

Short Waves:

Call	kc/s	m	kW
42) JOZ	3925	76.43	10
42) JOZ2	6055	49.55	10
42) JOZ3	9595	31.27	10

1) **Kobe Broadc. Co.**, 3–7 Isonare-cho, Suma-ku, Kobe. – **L.P.**: Pres.: K. Tanaka.
2) **Iwate Broadc. Co.**, 61 Uchimaru, Morioka. – **L.P.**: Pres.: S. Iwakame.
3) **R. Oita Broadc. Co.**, 1–491 Takamatsu, Oita. – **L.P.**: Pres.: K. Otsu.
4) **R. Yamanashi Broadc. Co.**, 288 Hyakukoku-machi, Kofu City. – **L.P.**: Pres.: J. Noguchi. Mgr.: K. Kazama. Dir. Tec.: Y. Sato. – **D.PRGR.**: 20.30–15.00.
5) **Kita-Nihon Broadc. Co.**, 31 Irifune-cho, Toyama. – **L.P.**: Pres.: S. Yokoyama.
6) **Hokuriku Broadc. Co.**, 128 Takaoka-machi, Kanazawa. – **L.P.**: Pres.: H. Saga.
7) **R. Minami-Nihon**, 2 yasui-cho, Kagoshima. – **L.P.**: Pres.: S. Hatanaka. Mgr.: K. Ijuin. Dir. Tec.: H. Yamamoto. – **D. PRGR.**: 20.30–14.30. – **V.** by QSL-card. – **F.PL.**: TV station April 1959.
8) **Hokkaido Broadc. Co.**, 3 West 1 South, Sapporo, Hokkaido. – **L.P.**: Pres.: S. Abe. Mgr. & Dir. Prgr.: K. Muroya. Dir. Tec.: J. Sugiyama. – **D.PRGR.**: 20.00–15.30. – **Nat. Music**: W.: 05.40, 06.15. Tues.: 04.15. – **N.**: W.: 12.10. – **Wrp.**: 21.55, 02.55, 09.50. **Mbg.**: Sun. 10.40. – **V.** by QSL-card. R. p.
9) **Tohoku Broadc. Co.**, 141 Higashi-Nibancho, Sendai. – **L.P.**: Pres.: K. Sasaki.
10) **R. Tohoku Broadc. Co.**, 14, 1-chome Omachi, Akita. – **L.P.**: Pres.: T. Yukichi.
11) **R. Fukushima Broadc. Co.**, 8 Shimo-Arako, Fukushima. – **L.P.**: Pres.: T. Tobishima.
12) **Shin-Etsu Broadc. Co.** (SBC), 1–132 Yoshida, Nagano. – **L.P.**: Pres.: J. Katsuta.
13) **R. Niigata**, 18–3 Kawagishi-sho, Niigata. – **L.P.**: Pres.: K. Sakaguchi.
14) **Kyoto Broadc. Co.**, Karasumaru-Nijo, Nakakyo-ku, Kyoto. – **L.P.**: Pres.: K. Shiraishi.
15) **Sanyo Broadc. Co.**, 1–33 Higashi-Nakasange, Okayama. – **L.P.**: Pres.: H. Taniguchi.
16) **Nankai Broadc. Co.**, 30–1 Masaki-machi, Matsuyama. – **L.P.**: Pres.: Y. Yamanaka.
17) **Kyushu Asahi Broadc. Co.**, 210 Higashi-Nakasu, Fukuoka. – **L.P.**: Pres.: I. Dan.
18) **Fukui Broadc. Co.**, 41 Makinoshima-cho, Fukui. – **L.P.**: Pres.: S. Kato.
19) **Kinki-Tokai Broadc. Co.**, Mie Bldg. 2106 Hon-machi, Marunouchi, Tsu. – **L.P.**: Pres.: M. Abo.
20) **R. San-In Broadc. Co.**, 90 Higashi-Kurayoshi-Machi, Yonago. – **L.P.**: Pres.: O. Oda.
21) **Yamagata Broadc. Co.**, 471 Nanuka-machi, Yamagata. – **L.P.**: Pres.: Y. Hattori.
22) **R. Kochi Broadc. Co.**, 23 Hon-machi, Koshi. – **L.P.**: Pres.: G. Fukuda.
23) **Shikoku Broadc. Co.**, 93–1 Shim-machi-bashi, Tokushima. – **L.P.**: Pres.: S. Maekawa.
24) **R. Tokyo**, Main Office: Hitotsugicho, Minatoku, Tokyo. Studio: Yuraku-cho, Chiyodaku, Tokyo. – **Cable**: JOKR TOKYO. – **L.P.**: Pres.: T. Adachi. Mgr.: K. Shikakura. Dir. Prgr.: J. Imanichi. Dir. Tec.: K. Endo. Dir. Adm.: Y. Tauaka. – **D. PRGR.**: 20.00–16.15. – **Nat. Music**: Wed. 13.15. – **N. Comm. & Wrp.**: Every h. – **English**: 03.15–03.45. – **ANN.**: "JOKR Kochirawa Radio Tokyo desu". E.: "JOKR This is Radio Tokyo". – **V.** by QSL-card. – Prgr. sched. free on request. – **F.PL.**: FM st. 1959
25) **R. Yamaguchi Broadc. Co.**, 2–2944 Kume, Tokuyama. – **L.P.**: Pres.: K. Nomura.
26) **Asahi Broadc. Co.**, New Asahi Bldg., Nakanoshima, Osaka. Tokyo Office: Asahi Bldg., Nishi-Ginza, Tokyo. – **L.P.**: Pres.: Dr. M. Iijima. Ex. Dir. & Sales Dir.: T. Tateishi. Man. Dir.: T. Hirai. Dir. Prgr.: R. Tanaka. Dir. Tec.: K. Kusama. Mgr. Tokyo Office: M. Yoshida. – **D.PRGR.**: 20.30–15.30. – **N.**: W.: 20.50, 21.50, 22.50, 00.50, 01.50, 03.50, 04.50, 05.50, 06.50, 07.50, 08.50, 09.50, 11.50, 13.50. Sun.: 20.50, 21.50, 22.50, 00.50, 02.50, 08.50, 09.50, 13.50. – **ANN.**: "ABC Asahi Hoso, JONR". – **V.** by QSL-card. – **PUB.**: "Radio and TV, Asahi", monthly.
27) **R. Aomori Broadc. Co.**, 72 Fukuda, Matsumori, Aomori. – **L.P.**: Pres.: S. Takeuchi. Mgr.: I. Sakamoto. Dir. Prgr.: T. Honda. Dir. Tec.: S. Machida.
28) **Chubu Nippon Broadc. Co.**, 15, 4-chome, Shinsakae-machi Naka-ku, Nagoya. – **L.P.**: Pres.: K. Sasabe. Man. Dir.: G. Kojima. Dir. Tec.: K. Morihara. – **D. PRGR.**: N.: 03.00, 08.50, 12.45. – **V.** by QSL-card. – **F.PL.**: 6 rel. stations. – **PUB.**: Prgr. sched. free on request.
29) **R. Shizuoka**, 46 Koya-machi, Shizuoka. – **L.P.**: Pres.: Y. Komuratani.
30) **R. Kyushu Broadc. Corp.**, R. Kyushu Bldg. 21–2 Shinkai-cho, Fukuoka. – **L.P.**: Pres.: M. Yamawaki.
31) **Nagasaki Broadc. Co.**, 1 Sakura-machi, Nagasaki. – **L.P.**: Pres.: E. Nakabe.

32) **R. Kumamoto Broadc. Co.,** 42 Kamitori-cho, Kumamoto. – **L.P.:** Pres.: R. Fukami.
33) **R. Miyazaki Broadc. Co.,** 858 Shimo-Kitakata-machi, Miyazaki.
34) **Nippon Cultural Broadc. Inc.,** 5-1 Wakaba, Shinjuku, Tokyo. **L.P.:** Pres.: S. Mizuno.
35) **Mainichi Broadc. Co.,** 53 Dojima Funa daiku-cho, Kita-ku, Osaka. – **L.P.:** Pres.: M. Sugi. Mgrs.: M. Goto and T. Nagamatsu. Dir. Prgr.: R. Kawaguchi. Dir. Tec.: Y. Takashima. – **D. PRGR.:** 20.30–15.30. **N.:** Every h. on the h. exc. 10.00, 11.00, 12.00. – **V.** by QSL-card. – **PUB.:** "MBS Club", "CM Kenkyu". Prgr. sched. free. – **F.PL.:** Power 50 kW. 2 FM stations (Tokyo, Osaka), 6 rel. st.
36) **R. Chugoku Broadc. Co.,** 68 Kamiyanagi-cho, Hiroshima. – **L.P.:** Pres.: T. Tsukifuji.
37) **Nippon Broadc. System,** 7 1-chome Yurakucho, Chiyodaku, Tokyo. – **L.P.:** Pres.: K. Uemura. Man. Dir.: N. Shikanai. Dir. Gen. Affairs: U. Suzuki. Dir. Business: T. Hasegawa. Dir. Prgr.: T. Takahashi. Dir. Tec.: S. Hase. – **D. PRGR.:** 20.00–16.45. – **N.:** 20.30, 21.30, 22.30, 00.30, 02.30, 03.30, 06.30, 10.00, 14.00, 15.30. **Comm.:** 14.30. **Wrp.:** After news. **Nat. Music:** Sat., Sun. 14.00. Wed. 06.00. Thurs., Fri. 13.15. – **ANN.:** "JOLF, Nippon Hoso desu". – **INT.-SIG.** (Time Signal):



V. by QSL-card. R.p. – **PUB.:** Prgr. sched. free on request.
38) **Osaka Broadc. Co.,** Sankei Bldg. 27 Umeda-cho, Kiti-ku, Osaka. **L.P.:** Pres.: H. Maeda.
39) **R. Tokai Broadc. Co.,** 10-4700 Kami-Kano, Gifu. – **L.P.:** Pres.: J. Watanabe.
40) **R. Kanto,** 19 Oimatsu-cho, Nishi-ku, Yokohama. – **L.P.:** Pres.: S. Suzuki.
41) **Nishi-Nippon Broadc. Co.,** 1297 Kito-cho, Takamatsu. – **L.P.:** Pres.: J. Hirai.
42) **Nihon Short-Wave Broadc. Co.,** 3, 7-chome, Tamachi, Akasaka, Minato-ku, Tokyo. – **L.P.:** Pres.: S. Odajima. Vice Pres. & Dir. Foreign Rel.: Z. Takano. Dir. Prgr.: S. Iizawa. Dir. Adm.: S. Ando. Dir. Tec.: T. Kawahara. Dx-Editor: Y. Kobayashi. – **D. PRGR.:** 20.30–15.25. – **Wrp.:** 20.45, 07.20, 14.40. – **DX-Prgr.** in Japanese: Sat. 22.15–22.30. – **ANN.:** "Nihon Tampa Hoso desu, NSB". – **INT.-SIG.:** Slow tempo chime with Japanese musical instrument "Koto" at sign on and sign off. – **V.** by QSL-card, but inland listeners reports should cover at least 1 h. prgr. reception data in total. – **PUB.:** "Tampa Techo" monthly. Prgr. sched. free on request.

ALLIED STATIONS

FAR EAST NETWORK (USA AFRTS, Army)

The network serves the members of the United States and United Nations Forces serving in the Far East.
ADDR.: 8213th Army Unit APO 613 c/o PM. S. Francisco, Calif.
The stations of the FEN in Japan and Okinawa broadcast by authority of the Commander in Chief, Far East, and are linked by land line or w. radio; sw. also links FEN with AFKN.

朝日放送
ASA HI HO SO
LISTEN TO
ABC
Japan's Voice of Time
ASAHI BROADCASTING COMPANY
Head Office : Nakanoshima, Kitaku, Osaka.
Branch Office : Yurakucho, Chiyodaku, Tokyo.
JONR ——1010KC —10KW
JONR-TV——CHANNEL 6—10KW

HOME SCE. in English: 21.00–15.05 (on 810 kc/s to 16.00).
Medium Waves: see U.S.A.
Short Waves (relay Tokyo 810 kc/s):
3800 kc/s 78.95 m 0.25 kW
6160 – 48.70 – 10 – 10.00–15.05 Nighttime only.
11750 – 25.53 – 10 – 21.00–09.45 Daytime only.
15257 – 19.66 – 10 – 21.00–09.45 Daytime during summer.
ANN.: Except for half hour and on the hour, identification is "Far East Network, serving American Forces in Japan and Okinawa". Other times local station identification is i.e. "FEN-Tokyo", Nagoya, Sendai etc. Shortwave transmitters are identified in E. with frequency. – **V.:** Reports are desired and welcomed

VOICE OF UNITED NATIONS COMMAND (V.U.N.C. Go.)

ADDR.: U.S. Army Broadcast and Visual Activity, Far East, APO 500, San Francisco, Cal.
FOREIGN SCE. in Cantonese, Mandarin, Korean.
VUNC Korea Network (Seoul): 07.30–02.00.
760 kc 5 kW – 2720 kc 0.3 kW – 1220 kc 5 kW – 3765 kc 0.3 kW
VUNC Japan Network:

Tokyo	JOAB	690	kc/s	434.0	m	100	kW	15.02–16.30[1])
Osaka	JOBB	830	–	362.0	–	100	–	15.02–16.30[2])
Yamata	–	6015	–	49.88	–	20	–	14.30–21.00
Yamata	JBD2	9560	–	31.38	–	10	–	11.00–18.00

[1]) Mandarin only. [2]) Korean only.
KBS Network Two: 12.30–14.00.
Seoul 970 kc/s 309 m 100 kW – 7180 kc/s 41.78 m 1 kW
FM: 44.0 mc/s 0.06 kW – 99.6 mc/s 0.25 kW.
ANN.: E.: "Voice of the U.N. Command". – **V.** by QSL-card.

★ KOREA (Peoples Democratic Republic) ★

L.T.: GMT+8½ h. (Su. 9½ h.). – **L.:** Korean. **Rcvrs.:** 589.036.

RADIO PYONGYANG (Go.)

ADDR.: Korean Central Broadcasting Committee, Pyongyang.
STATIONS: Medium Waves:

kc/s	m	kc/s	m	kc/s	m	kc/s	m
705	425	785	382	820	365	1080	278

Short Waves:

kc/s	m	kc/s	m	kc/s	m	kc/s	m
2850	105.3	5700	52.63	6195	48.43	6250	48.00

HOME SCE. in Korean (including relays from R. Moscow): 21.00–24.00 on 785/2850/5700/6195 kc/s, 03.00–05.00 on 785/1080/2850/6195/6250 kc/s, 08.00–12.30 (or 13.00) & 14.00–15.00 on 785/2850/6195 kc/s, 16.00–18.00 on 6195 kc/s.
FOREIGN SCE. in Korean, Japanese, Chinese:
To S. Korea (Korean): 21.00–22.00, 23.00–24.00, 08.00–13.00, 14.00–15.00 on 705/820/1080/6250 kc/s, 13.00–14.00 on 785/1080/2850/6195 kc/s, 15.00–16.00 on 785/1080/2850/6195/6250 kc/s.
To Japan (Japanese): 22.00–22.30, 13.30–14.00 on 820/6250 kc/s.
Korean: 13.00–13.30 on 820/6250 kc/s.
To China (Chinese): 22.30–23.00 on 820/6250 kc/s.

★ KOREA (Republic of) ★

L.T.: GMT+8½ h. (Su. +9½ h., 4/5–20/9). – **L.:** Korean. – **Rcvrs.:** 300.000.

THE KOREAN BROADCASTING SYSTEM (Go.)

ADDR.: Bureau of Broadc. Management, Office of Public Information, Seoul. – **L.P.:** Dir. Gen.: K. I. Lee. Mgr.: O. Y. Lee. Dir. Prgr.: K. K. Yoon. Dir. Adm.: C. P. Kho. Dir. Tec.: J. K. Lee.
STATIONS:
Short Waves: [1] Seoul Yonhi. [2] Seoul Suwon.

Call	Prgr.	kc/s	m	kW	Call	Prgr.	kc/s	m	kW
HLK50	1	2510	119.5	10[1]	HLK5	1	9640	31.12	50[2]
HLK51	1	3910	76.73	3[1]	HLK6		11925	25.17	50[2]
HLK2	1	5980	50.17	10[1]	HLK7		15255	19.66	50[2]
HLK4	2	7180	41.78	1[1]	HLK8		15410	19.47	50[2]
HLK52	1	7935	37.81	1[1]	HLK9		17895	16.76	50[2]

Medium Waves: ° Short Wave. [3] Mobile unit. [4] 1st Prgr. [5] 2nd Prgr.

Name	Call	kc/s	kW	Name	Call	kc/s	kW
Iri	HLKF°[4]	570	5	Taejon	HLKI	880	10
Mokpo	HLKN	650	0.5	Chungpu	HLKQ	920	1
Kangnung	HLKR	660	5	Seoul	HLKA°	970	100
Seoul	HLKA°[5]	710	100	Sokcho	[3]	1000	0.3
Taegu	HLKG	740	10	Namwon	HLKL	1030	0.5
Masan	HLKO	760	0.2	Chunchon	HLKM	1360	0.3
Kwangpu	HLKH	780	1	Yosu	[3]	1360	0.25
Pusan	HLKB	820	10	Pohang	[3]	1400	0.25

FM: Chongdong & Namsan: 0.25 kW exc. 44,5, 48.3 mc/s 0.06 kW.
HOME SERVICE:
1st Prgr. (Korean): 20.30–16.30. – **N.:** 21.30, 23.30, 01.30, 03.30, 04.30, 06.30, 08.30, 10.30, 12.30, 13.30. – **Wrp.:** 00.00, 13.45.
2nd Prgr. (Korean, English, Chinese, Japanese): 20.30–16.30.

Prgrs. in Foreign Languages: English (The Voice of Free Korea): 10.30–11.00. – **Japanese:** 13.00–13.30. – **Chinese:** 15.00–15.30, 16.15–16.30. – **Red China Armed Forces Hour:** 16.15–16.30.
FOREIGN SCE.: [1]) To USA/Hawaii. [2]) To So.Ea.As. [3]) To Japan.
[1]) 05.30–06.30 on 11925, 15255 kc/s: **English:** 05.30. **Korean:** 06.00.
[2]) 08.00–09.00 on 11925, 15255 kc/s: **English:** 08.00. **Korean:** 08.30.
[2]) 14.00–15.00 on 9640 kc/s: **English:** 14.00. **French:** 14.30.
[3]) 13.00–13.30 on 9640 kc/s: **Japanese.**
N., Commentary after the Signal Music of every overseas programmes and in So.Ea.As. program: Sun.: Glimpse of Korea. Mo.: Korean Folk prgr. Sat.: Korean Music. – In USA/Hawaii prgr.: Sun. Sat.: Korean Classical Music. Fri.: Foreigners in Korea.
ANN.: Home Sce.: Every 30 min. **Korean:** "Seoul Chung-ang Bang-song-guk Ibuida, HLKA" (Seoul Key Station HLKA). – After every short prgr.: KBS (kei bi es). – **Foreign Sce.: E.:** "This is the Voice of Free Korea, Korean Broadcasting System". – **INT.-SIG.: Foreign Sce.:** "Arirang" (typical Korean folk music). – **V.** by QSL-card. – **F.PL.:** Pusan 50 kW. New st. at Chinhae. – **PUB.:** Prgr. schedule free upon request. Radio and TV (monthly). Weekly Broadcasting.

CHRISTIAN BROADCASTING STATION (Non-Comm., Independent)
ADDR.: 91 Chongno 2 Ka, Seoul. – **L.P.:** Dir.: E. O. De Camp. Mgr.: C. Bok Kim. Dir. Prgr.: J. J. Whang. Dir. Tec.: M. K. Chun.
HOME SCE.: HLKY 840 kc/s 357 m 10 kW.
Korean: D.: 21.30–24.00, 09.30–14.30. Sun. 14.30–15.30. – **English:** Sat. 23.30–Sun. 01.30. Sun.: 06.30–07.30, 13.00–13.30. English, Korean: Sun. 07.30–09.30. – **N.:** Korean D.: 22.30, 23.30, 10.15, 11.20, 13.30. – **F.PL.:** 2 rel. m.w. st. 0.25 kW in Taegu and Kwangju 1959.

RADIO STATION HLKX (*Religious. Educational. Comm. prg. on limited basis*)
Operated by the Evangelical Alliance Mission, 2845 W. McLean Av., Chicago.
ADDR.: Box 16, Inchon. – **Cable:** Team Seoul. – **L.P.:** Dir.: T. Watson jr.
HOME SCE.: TEAM Radio 1230 kc/s 244 m 2 kW: **W.: Korean:** D. 11.00(Sun. 10.00)–12.30. Sun. also 23.00(Sat.)–01.30. **English:** D. 07.30–11.00(Sat. 13.30). Sun. also 01.30–10.00. – **V.** by QSL-card.

AMERICAN FORCES KOREAN NETWORK (Go.)
ADDR.: Headquarters, United States Element, American Forces Korean Network, APO 301, S. Francisco, Calif., U.S.A.
STATIONS: Medium Waves: see U.S.A
Short Wave:
Seoul: 6875 kc/s 43.64 m 0.25 kW (rel. 560 kc/s): 21.30–17.30.
ANN.: "This is the AFKN, American Forces Korean Network". – **V.** by letter. R.p.

★ LAOS ★

L.T.: GMT+7 h. – **L.:** French, Lao, Thai. – **Rcvrs.:** 15.000.

RADIODIF. NATIONALE LAO (Go.)
ADDR.: Radiodiffusion Lao, Vientiane. **Cable:** "RadioLao". – **L.P.:** Dir. Gen.: T. Hong Sing. S. Phabmixay. Dir. Prgr. & Adm.: T. Nivong. Dir. Tec.: Thao Viengsavanh. For. Rel.: Mme N. K. Ratikoul.
HOME SCE.: 00.00–01.00, 05.00–06.00, 11.00–13.30.
6130 kc/s 48.94 m 1 kW – 7145 kc/s 41.99 m 1 kW.
Lao: 00.00–00.45, 05.00–06.00, 11.00–13.00. – **N.:** 11.30, 12.00, 12.30. – **Nat. Music:** 11.00. – **Mbg.:** Sun. 01.00. – **Wrp.:** 00.10, 11.10.
French: 00.45–01.00, 13.00–13.15. **Thai:** 13.15–13.30.
ANN.: "Ici Vientiane Radiodiffusion Nationale Lao". – **INT.-SIG.:** Music on khene, instrument of bambus. – **V.** by letter or QSL-card.

★ MACAU (Portuguese China) ★

L.T.: GMT+8 h. – **L.:** Portuguese, Chinese, English. – **Rcvrs.:** 6000.

EMISSORA VILA VERDE (Pr.-Comm.)
ADDR.: Radio Vila Verde, Macau. **Cable:** Vila.
L.P.: Dir.: Dr. P. J. Lobo. Mgr.: P. H. Lobo. Dir. Prgr.: A. Noronha. Dir. Tec.: J. J. Alvares.
HOME SERVICE:
CR9XL 1005 kc/s 298.5 m 3 kW: 23.00–16.00 **(Chinese)**
CR9XM 1250 kc/s 240 m 1 kW: 12.00–16.00 **(Portuguese)**
CR9XM 17785 kc/s 16.87 m 0.3 kW: Exp. d
ANN.: E.: "You are listening to Radio Vila Verde-Macau". **P.:** "Aqui Emissora Vila Verde Macau, estaçao...". – **V.** by letter or QSL-card.
INT.-SIG.:

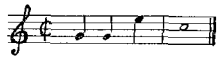
★ MALAYA (Federation) ★

L.T.: GMT+7½ h. – **L.:** Malay, English, Chinese, Tamil. – **Rcvrs.:** 189.093.

RADIO MALAYA (Go.)
ADDR.: Dept. of Broadcasting, 5th Floor, Federal House, Kuala Lumpur. **Cable:** Broadcasts.
L.P.: Dir. Gen.: A. T. Read. Dep. Dir. Prgr.: J. D. Lyttle. Dep. Dir. Eng.: K. Singh.
STATIONS: Medium Waves:

	kc/s	kW	Network		kc/s	kW	Network
Kajang	590	10	Green	Ipoh	910	2	Purple
Penang	660	2	Orange	Malacca	1010	0.3	Purple
Ipoh	740	2	Orange	Kajang	1070	10	Red
Penang	820	2	Purple	Malacca	1280	0.3	Orange
Kajang	880	10	Blue				

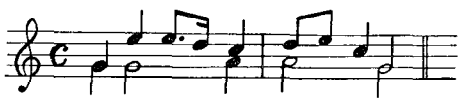
Short Wave: Kajang 6025 kc/s 49.79 m 5 kW (Red network).
DAILY PRGR's in Malay, English, Chinese, Tamil: 23.45–15.30.
ANN.: E.: "This is R. Malaya". – **INT.-SIG.:**



★ MONGOLIA (Outer) ★

L. Å.: GMT+8 h. – **L.:** Mongolian.

ULAN BATOR RADIO (Go.)
Addr.: MNR Ulan-Bator Radio, Ulan Bator. – **L.P.:** Chairman of the Board: Sodnomdarsja. Chief Editor: Gombosuren.
STATIONS: Ulan-Bator 300 kc/s 1000 m 10 kW – 6345 kc/s 47.28 m 5 kW d. – 10375 kc/s 28.90 m 5 kW d.
D.PRGR.: 23.00–02.00 on 10375 kc/s – 08.00–15.00 on 300, 6345 kc/s: **Nat. Music:** 01.45–02.00, 10.00–11.15 – **N., Comm.:** 23.00–10.15 – **Mbg.:** Sat. 12.45–13.15 – **Wrp.:** 01.43, 10.28, 14.13.
FOREIGN SCE.: Mongolian: 08.20–08.25 – **Russian:** Mo., Wed. 12.40–13.00, Fri. 12.10–12.30 – **Chinese:** Tues. 12.35–12.55, Thurs. 12.40–13.00, Sun. 14.30–14.50. **Kazakh:** Tues. 11.36–11.55, Sat. 12.15–12.45.
ANN.: "Ankhararai. Ulanbatras jarsj baina" (Attention. This is Ulan-Bator Calling) – **INT.-SIG.:**



★ NEPAL ★

L.T.: GMT+5½ h. – **L.:** Nepali, Newari, Hindi, English. **Rcvrs.:** 10.000.

RADIO NEPAL (Go.). **ADDR.:** Kathmandu (Via India).
HOME SERVICE:
1500 kc/s 200.0 m 20 kW D. 12.20–13.50.
7100 – 42.25 – 5 kW Wed.: Approx. 03.20–04.50, 07.50–09.20, 12.00–13.00, 23.00–01.00.
N. in Newari: 03.35. – **N. in Nepali:** 03.40, 08.20, 12.30. – **N. in English:** 04.35, 12.45. – **N. in Hindi:** 04.40, 09.10.
ANN.: E.: "This is Radio Nepal." Nepali: "Yo Radio Nepal Ho." – **V.** by letter. R.p.

★ PAKISTAN ★

L.T.: We. Pakistan: GMT+5 h. **Ea. Pakistan:** GMT+6 h.
L.: Urdu, Bengali. – **Rcvrs.:** 100.039.

RADIO PAKISTAN (Go.). R.P.=Radio Pakistan.
ADDR.: 71, Garden Road, Karachi 3. – **Cable:** Pakbrocast, Karachi.
L.P.: Dir. Gen.: Z. A. Bokhari. Dep. Dir. Gen. I: R. Ahmed. Dep. Dir. Gen. II: A. Outh. Chief Eng.: B. Ahmed. Dep. Chief Eng.: S. A. Aziz. Dir. Prgr. Planning: A. Butt. Dir. Liaison: Z. Husain. Adm. Officer: K. A. Mukhtar. **Executive Units:** Dir. N., Karachi: A. G. Eirabie. Dir. External Sce's., Karachi: S. A. Hafeez. Reg. Dir. R.P., Karachi: M. Iqbal. Reg. Dir. R.P., Lahore: A. B. Ahmed. Reg. Dir. R.P., Rawalpindi: A. Nasri. Reg. Dir. R.P., Peshawar: S. Haider. Reg. Dir. R.P., Hyderabad: H. Naseem. Reg. Dir. R.P., Dacca: A. F. Kalimullah. Reg. Dir. R.P., Quetta: K. G. Ali. Dir. Monitoring, Karachi: S. I. Haq. Resident Eng. H.P.T., Karachi: S. Shah. Installation Eng., Karachi: M. G. Baig. Maintenance Eng., Karachi: M. A. Rahman. Research Eng. R.P., Karachi: Irfanullah. Editor, R. Pakistan Pub., Karachi: G. Abbas.
STATIONS:
Medium Waves:

	kc/s	m	kW		kc/s	m	kW
Peshawar	790	379.7	10	Rawalpindi	1150	260.0	10
Karachi I	830	361.4	10	Dacca I	1170	256.4	5
Chittagong	870	344.8	1	Rajshahi	1340	223.9	1
Hyderabad	1010	297	1	Quetta	1450	206.9	1
Lahore I	1090	275.2	5				

Short Waves: Karachi II/III = 50 kW; Karachi IV/V = 10 kW.

kc/s	m	kc/s	m	kc/s	m	kc/s	m
2420	124.0	7010	42.80	9740	30.80	15205	19.73
3335	89.96	7096.6	42.27	9755	30.75	15255	19.67
3395	88.37	7110	42.19	11570	25.93	15275	19.64
3915	76.63	7200	41.67	11580	25.91	15285	19.63
3955	75.85	7225	41.52	11650	25.75	15335	19.56
4807	62.41	7263	41.31	11674	25.70	15620	19.21
4895	61.29	7280	41.21	11725	25.58	17710	16.94
4910	61.10	7290	41.15	11770	25.49	17715	16.93
4935	60.79	9484	31.63	11810	25.40	17740	16.91
5980	50.17	9495	31.60	11845	25.33	17750	16.90
5990	50.08	9518	31.52	11885	25.24	17770	16.88
6035	49.71	9545	31.43	11914	25.18	17820	16.84
6070	49.42	9614	31.20	15135	19.82	17835	16.82
6075	49.38	9630	31.15	15145	19.81	21590	13.90
6220	48.23	9645	31.10	15160	19.79	21630	13.87
6235	48.12	9705	30.91	15165	19.78	21690	13.83

Dacca: II 7.5 kW:

2350	127.7	5980	50.17	7225	41.52	11725	25.58
3325	90.23	6112	49.06	7623	39.29	11885	25.24
3955	75.85	6120	49.02	7655	39.19	11890	25.23
3965	75.66	7085	42.34	7667.5	39.13	15270	19.65
4807	62.41	7140	42.02	9614	31.20	15335	19.56
5970	50.25	7150	41.96	9645	31.10	17890	16.77

Lahore: II 1 kW:

2400	125.0	4807	62.41	7096	42.27	9645	31.10
3335	89.96	6030	49.75	7225	41.52	11800	25.42
3395	88.37	6075	49.38	7284	41.19	11840	25.34
3915	76.63	6138	48.88				

All frequencies are subject to seasonal changes.

HOME SERVICE

MEDIUM WAVE PROGRAM:

Karachi 830 kc/s (Urdu, English, Bengali, Kashmiri, Pushto, Arabic): 01.45–03.30, 06.30–09.00, 11.30 (Fri., Sat., Sun. 12.00)–17.30.

Lahore 1090 kc/s (Urdu, English, Punjabi): 02.00–03.30, 06.30–08.30, 11.30–17.00.

Peshawar 790 kc/s (Urdu, English, Pushto, Persian): 02.00–03.30, 07.00–08.30, 11.30–17.00.

Rawalpindi 1150 kc/s (Urdu, English, Pathohari): 02.00–03.30, 07.00–08.30, 11.30–17.00.

Dacca 1170 kc/s (Urdu, English, Bengali): 01.00–03.00, 06.00–07.30, 11.00–16.30. (Third tr. is rel. by Rajshahi & Chittagong).

Hyderabad 1010 kc/s (Urdu, English, Sindhi): 12.00–17.00.

Quetta 1450 kc/s (Urdu, English, Baluchi): 12.00–17.00.

Abbreviations: (K = Karachi, L = Lahore, P = Peshawar, R = Rawalpindi, D = Dacca, H = Hyderabad, Q = Quetta).

Nat. Music: is broadcast d. from each st. of R. Pakistan on the chunks other than those reserved for fixed point items, spoken word items and news.

N. in English: (* incl. Wrp.)

02.30–02.45	K, L, P, R, D	06.30–06.40	K, D
08.00–08.10	K, L, P, R	13.20–13.25	Local K*
12.00–12.10	K, L, R, D	12.25–12.30	Local L*, R
14.45–15.00	K, H, L, Q, R, P, D	13.50–13.55	P*

Wrp.: English: 12.29 (R), 01.20 (D), 06.00 (D), 12.10 (D).

N. in Urdu:

02.45–03.00	K, L, P, R, D	12.20–12.25	Local L*
08.10–08.20	L, K, P, R	13.45–13.50	Local P*
12.10–12.20	K, H, L, Q, P, R	12.20–12.25	Local R*
13.15–13.20	Local K*	12.30–12.35	Local Q*
15.00–15.15	K, H, L, Q, P, R, D	12.55–13.00	Local D

N. in Bengali:

01.45–02.00	K, D	13.45–14.00	K, D
06.40–06.50	K, D	12.50–12.55	Local D

N. in Pashto:

03.00–03.10	K, P	12.20–12.30	K, P
07.50–08.00	K, P	13.30–13.40	Local P*

N. in Kashmiri[1], Sindhi[2], Balochi[3]:
[1] 12.35–12.45 K. [2] 12.30–12.40 H. [3] 13.20–13.30 K, Q.
[3] 12.35–12.40 Local Q*.

Mailbag:

Sun.	04.45–05.00 (K)	Urdu	Thurs.	13.15–13.30 (H)	Sindhi
Thurs.	13.45–14.00 (L)	Urdu	Mo.	13.15–13.30 (H)	Urdu
Thurs.	15.15–15.30 (P)	Urdu	Wed.	13.00–13.15 (Q)	Urdu, Baluchi
Fri.	13.00–13.15 (P)	Pushto			
Sun.	13.45–14.00 (R)	Urdu	Tues.	13.30–13.45 (D)	Beng.

Time-Sig. on m.w. and s.w. from Karachi: 02.00, 08.00, 12.00.

SHORT WAVE PRGR.:

Karachi to W. Pakistan: 01.45–03.30, 06.30–09.00, 11.30–17.30

	kc/s		kc/s
01.45: N. in Bengali		07.00: Karachi Prgr	
02.00: N. in English		07.50: N. in Pushto	9645
02.15: N. in Urdu	6070	08.00: N. in English	11845
02.45: Karachi prgr.	7280	08.10: N. in Urdu	
02.50: N. in Pushto		08.20: Karachi Prgr.	
03.00: Karachi Prgr.			
12.00: N. in English	kc/s	13.20: Baluchi Prgr.	7290
12.10: N. in Urdu	7290		9645
12.20: N. in Pushto	9645	14.00: Karachi Prgr.	
12.35: N. in Kashmiri		14.45: N. in English	7290
12.45: Kashmiri Prgr.	9750	15.00: N. in Urdu	9645
	7010		

Karachi to E. Pakistan: 01.45–03.30, 06.30–09.00, 11.30–17.30.

01.45: N. in Bengali	15335	08.00: N. in English	17750
02.30: N. in English	11885	08.10: N. in Urdu	21590
02.45: N. in Urdu		12.00: N. in English	17750
06.30: N. in English	17750	12.10: N. in Urdu	21590
06.40: N. in Bengali	21590	13.45: N. in Bengali	11914
07.00: Karachi Prgr.		14.00: As for W.Pakist.	15155

Zonal Services:

Lahore	kc/s	Dacca	kc/s	Dacca to W.Pakistan	kc/s
01.30–03.00	4807	01.00–03.00	5980	13.45–14.00	17890
08.10–08.30	7225	06.00–07.30	9614		
11.30–13.30	7225	11.00–13.00	7140		
13.45–17.00	4807	13.15–13.30	5970		

ANN.: E.: "This is Radio Pakistan, Karachi, Lahore" etc.

EXTERNAL SERVICES

	Service	kc/s	Language
00.30–01.15	So.Ea.As.	11885/15335	Urdu/English
03.45–04.45	So.Ea.Af.	17750/21590	Urdu/Gujrati
08.30–09.15	Ind.	17750/21590	English/Urdu
09.30–10.30	So.As.	11845/17750	Urdu
10.45–11.00	Gen. Overseas Sce.*	17750/21590	English
11.00–11.45	Burmese	17750/21590	Burmese
15.30–15.45	Gen. Overseas Sce.**	11914/15275	English
15.30–16.15	Afghan-Persian	7290/9645	Afghan/Persian
16.15–16.30	M.East	7290/9645	Turki
16.00–16.45	Iran	5980/7010	Persian
17.00–18.00	Arabic	11674/15205	Arabic
18.15–19.00	Turkish	11674/15205	English
19.15–20.00	U.K.	11674/15205	English

* to F.East. ** to M.East.

N.: English: 10.45–11.00, 15.30–15.45. **Gujrati:** 04.00–04.10. **Burmese:** 11.00–11.10. **Afghan/Persian:** 15.35–15.45. **Arabic:** 17.05–17.15. **Urdu:** 03.50–04.00. **Iranian:** 16.05–16.15. **Turki:** 16.15–16.20.

ANN.: Home Sce. E.: "This is R. Pakistan, Karachi, Lahore..." "This is R. Pakistan calling listeners in (name of target country)"

INT.-SIG.: A signal tune is played during interval signals. – **V.** by QSL-card. – **F.PL.:** 10 kW s.w. tr. at Peshawar and Dacca, m.w. st. at Sylhet. – **PUB.:** "Pakistan Calling" in English. Urdu, Bengali (fortnightly). Monthly pub. in Arabic, Persian, Burmese.

✶ PHILIPPINES ✶

L.T.: GMT+8 h. – **L.:** English, Tagalog, Visayan. – **Rcvrs.:** 305.000· **Educational and Go. Comm. St.:** 2), 3), 5), 6). – **Religious St.:** 1), 4), 11)· Other st. private comm. – *) inactive.

STATIONS:

	Call	kc/s	m	kW	m.w.	Name & h. of tr.
1)	DYB4	3277	91.55	0.3	840	Silliman University: W. 21.00–02.00, 09.00–14.00 Sun. 21.00–05.00, 08.00–14.00
2)	DUB4	*3286	91.29	2.5	1190	Philippine Broadc. Service.
3)	DZCA	3305	90.77	1	540	Nat. Civil Defense Adm.: 09.00–13.00
4)	DZB2	3345	89.68	2	**	Far East Broadc. Co.: 21.00–15.00
3)	DZDA	3365	89.15	1		Nat. Civil Defense Adm.: 09.00–14.00
5)	DXB3	3945	76.05	0.5	880	Notre Dame Broadc. Corpo.: 22.00–14.00
6)	DZB6	4945	60.67	0.25	1430	Nat. Teachers College: 09.30–11.00, Sun. 01.00–03.00
7)	DZH4	6000	50.00	1	650	Voice of the Philippines: 21.00–15.00
4)	DZH6	6030	49.75	2	**	Far East Broadc. Co.: 21.00–15.00
1)	DYH4	6055	49.55	0.25	840	Silliman University: as3277kc
7)	DZI7	6080	49.34	0.25	760	Voice of Manila: 21.00–16.00
7)	DYH3	6100	49.18	0.25	1260	R. Cebu: 21.00–15.00
8)	DZI4	6110	49.10	7.5	580	Republic Broadc. System.: 09.00–17.00
7)	DYH2	6140	48.86	0.25	600	Voice of Cebu: 21.00–15.00
2)	DUH2	6170	48.62	1	710	Philipp. Broadc. Sce. 21.00–15.00
9)	DXH2	7280	41.21	0.5	740	Mindanao Colleges Broadc. System: 21.00–14.00
7)	DZH3	9500	31.58	1	800	R. Philippines: 21.00–15.00
10)	DZI2	9550	31.41	2	1000	Bolinao Electronics Corpo.: 21.00–17.00
11)	DZH5	9690	30.96	0.25	860	University of Santo Tomas: 10.00–14.00

Call	kc/s	m	kW	m.w.	Name & Times of tr.
4) DZH7	9730	30.83	2		Far East Broadc. Co.: 21.00–17.00
2) DUH5	11840	25.34	0.25	710	Philipp. Broadc. Sce. 21.00–15.00
4) DZH8	11855	25.31	2		Far East Broadc. Co.: 21.00–17.00
4)	11920	25.17	50		Far East Broadc. Co.
4) DZH9	15300	19.60	2		Far East Broadc. Co.: 21.00–17.00
4)	15385	19.50	50		Far East Broadc. Co.
4) DZI6	17805	16.85	10		Far East Broadc. Co.: 21.00–17.00
4) DZ18	21515	13.94	2		Far East Broadc. Co.: 22.15–17.00

** 680/1030 kc/s.

Medium Waves: °) Short Waves.

Call	kc/s	kW	Call	kc/s	kW	Call	kc/s	kW
3) DZCA	°540	1	1) DYSR	°840	1	17) DZQL	1160	1
12) DXWW	570	0.5	11) DZST	°860	10	12) DXAW	1180	1
8) DZBB	°580	10	5) DXMS	°880	1	2) DZRM	°1190	5
7) DYRC	°600	1	8) DZXX	890	1	16) DYLL	1200	1
10) DZAQ	620	50	9) DXMC	900	1	7f) DZHF	1250	1
7) DZRH	°650	10	16) DYHF	910	1	7) DYBU	°1260	1
4) DZAS	°680	10	17) DZXL	960	50	16) DYRI	1280	5
2) DZFM	°710	10	10) DZBC	°1000	1	10) DZMM	1340	1
9) DXUM	°740	0.5	12) DXJW	1010	1	20) DYRL	1360	1
7) DZMB	°760	1	8) DYSS	1020	1	18) DZWS	1380	10
13) DZCP	770	1	4) DZFE	°1030	1	21) DXRM	1390	1
14) DXCC	780	1	10) DZRI	1040	1	17) DYXL	1400	1
7f) DYVL	790	0.5	10) DZRB	1060	1	6) DZTC	°1430	1
7) DZPI	°800	10	18) DZMT	1100	10	8) DYOO	1440	1
15) DZMY	830	5	19) DYMM	1120	0.5	15) DZYY	1540	1

FM: 17) DZYL-FM 102.1 mc 0.25kW – 18) DZMT-FM 107mc 0.25kW 15) DZYY-FM 103.1 mc 0.25 kW

1) Station DYSR, Dumaguete City. – **L.P.**: Dir. Ad.: H. W. Mack. **HOME SCE.** in **English & Visayan: N.** in English: 21.00, 23.30, 10.00, 12.00. – **INT.-SIG.**: Sign on: Battle Hymn of the Republic. **ANN.**: "This is the Voice of Christian Brotherhood, DYSR, broadc. *from Dumaguete City on 840 kc/s m.w. and on two s w. stations in* the 91 and 49 m bands." – **V.** by QSL-card or letter. **PUB.**: Prgr. sched. free on request.

2) 5th Floor, GSIS Bldg., Arroceros and Concepcion Streets, Manila. **HOME SCE.** in English & Tagalog. – **English: Mbg.**: 24.00, 06.00 **N.**: 04.30, 12.45, 14.00. **Tagalog: N.**: 21.45, 05.00. **V.** by QSL-card or letter. R.p. **PUB.**: Prgr. sched. on request.

3) Grandstand, Luneta, Manila. – **D. PRGR.: N.: English**: 09.45. **Tagalog**: 10.30. – **V.** by QSL-card and letter.

4) Box 2041, Manila. – **Cable**: Febcom. – **L.P.**: Dir. Gen.: R. H. Bowman & Wm. J. Roberts. Philippine Dir.: W. A. Hulet. Dir. Prgr.: A. D. Golding. Dir. Adm.: R. A. Reynolds.
PHILIPPINE SCE.: In Tagalog, Ilocano, Cebuano, English, Spanish, Cantonese, Mandarin, Amoy.
On 680/6030 kc/s: 21.00–06.00, 08.00–15.00. On 1030 kc/s: 21.00–24.00, 10.15–13.00. – **Nat. Music**: 21.00, 02.00, 10.15. – **N.: English**: 23.00, 23.30, 04.00, 10.00, 14.00. **Tagalog**: 22.30, 11.00. – **Mbg.** (English): 00.15 (Thurs.), 08.00 (Fri.). – **Spanish**: 01.45–02.00. **Cantonese**: 05.15–05.30. **Mandarin**: 05.30–06.00. **Amoy**: 09.30–10.00.
OVERSEAS SCE. on 9730/11885/15300/17805/21515 kc/s:
21.00–17.00: English: **N.** 23.30, 04.00, 09.00, 15.00. **Mbg.**: 03.30 (Tues.), 15.15 (Wed.). – **Nat. Music**: 22.00 (Japanese & Indonesian). – **Japanese**: 21.00, 10.30. **Indonesian**: 22.45, 10.00. **Chinese**: 23.00–02.00, 13.00, 16.00. (**N. in Mandarin** 02.00, N. in Cantonese: 13.00). **Thai**: 00.00, 12.00. **Indian dialects**: 00.30. **Vietnamese**: 04.15, 12.45. **Cambodian**: 04.30, 12.30. **Burmese & Karen.**: 06.15. **Laotian**: 11.45. **Russian**: 06.45, 16.30. **Tibetan**: 01.30 (Mo./Wed./Fri.).
ANN.: E.: Philippine Sce.: "This is the Call of the Orient. (Chimes – 13 seconds). The Philippine Sce. of the Far East Broadcasting Company, DZAS 680 kc/s medium wave and related shortwave stations in the 89 and 49 meter bands... from Manila. This is the Call of the Orient... DZAS, DZB2 and DZH6... The Philippine Sce. of the Far East Broadcasting Company... serving the Philippines". **Overseas Sce.**: "This is the Call of the Orient (chimes – 13 seconds) the Overseas Sce. of the Far East Broadcasting Company operating in the 31, 25, 19, 16 and 13 meter bands. This is the Call of the Orient, Manila, operating at 9.73, 11.855, 15.3, 17.8 and 21.5 mc/s". **INT.-SIG.**: Chimes (every hour). – **V.** by QSL-card and letter. R.p. is welcomed. Separate card used for each freq. – **PUB.**: prgr. schedule free on request.

5) Cotabato City, Cotabato. **Home Sce. in English, Tagalog Visayan, Chinese, Hocano:**

6) National Teachers College, Tanduay, Manila.
ANN.: E.: "This is the Voice of Education." – **V.** by letter.

7) **MANILA BROADCASTING COMPANY**
ADDR.: Radio Center Philippines, 964 Taft Avenue, Manila. – **Cable**: "MANBROADCO". – **L.P.**: Pres. & Gen. Mgr.: Maestro Federico Elizalde. Comptroller & Treasurer: Guillermo Hernandez. Sales Dir.: Ira Davis. Dir. Tec.: John M. Palmer. Dir. Prgr.: Albert Card. PRO. Dir.: Rafael Yabut. Prgr. Coordinator: Jess Fernandez. Technical Supervisor: Magno Santos. Chief, Transmitter Site: Jose O. Ibarra. Jr. Studio Supervisor: Antonio Zulueta. Chief of Personnel: Ricaredo Esplanada.

a) THE VOICE OF PHILIPPINES
ADDR.: R. Center Philippines, 964 Taft Avenue, Manila.
L.P.: Production Mgr.: Angelo Castro. Chief Ann.: Ray Cordova.
HOME SCE.: In **English, Tagalog: N. in English: W.**: 00.00, 05.05, 13.00. **Wrp.**: Usually in the mornings. In the presence of a storm in the archipelag several times during the day. – **V.** QSL-card. R.p.

b) THE VOICE OF MANILA
ADDR.: R. Center Philippines, 964 Taft Avenue, Manila.
L.P.: Production Mgr.: Cris de Vera. Chief Ann.: Joe Salazar.
HOME SCE. in **English, Tagalog: N. in English: D.** 05.15 (Ann.: Cris de Vera). – **V.** by QSL-card. R.p.

c) *CEBU BROADCASTING COMPANY: ("VOICE OF CEBU" & "RADIO CEBU")*: **ADDR.**: Lim Bon Fing Building, Cebu City. – **L.P.**: Mgr. & Sales Dir.: Roberto M. Garcia. Dir. of Prgr.: V. P. Vamenta. Chief Studio Supervisor: Jose Explanada. Chief, Transmitter Site: E. Dayondon. PRO.: G. M. Mercado.
HOME SCE. in **English & Visayan: N. in English**: Sun. 03.15. Mo.-Sat. 23.15, 15.00, 08.30, 13.45. (Ann.: S. D. Tecson).
INT.-SIG.: For DYRC musical chimes: Sol-mi-do. – **V.** by QSL-card. R.p. – **F.PL.**: DYRC 5 kW.

d) RADIO PHILIPPINES
ADDR.: R. Center Philippines, 964 Taft Avenue, Manila.
L.P.: Production Mgr.: Phil Delfino. Chief Ann.: Don Fransisco.
HOME SCE. in **English, Spanish, Tagalog: N. in English: D.** 01.00. **Spanish**: "LA TABERNA": D. 04.30–05.15. (Ann.: Mecca Trapaga). **Chinese hour**: Mo.-Sat. 06.00–06.30 (Ann.: Mary Yu). – **V.** QSL-card. R.p.

e) THE VOICE OF LEYTE
ADDR.: Red Beach, Palo, Leyte. **L.P.**: Production Mgr.: Eduardo Montilla. Broadcasts in English and Waray-Waray dialect.

f) METROPOLITAN BROADCASTING COMPANY (1250 on your dial maintaining the highest traditions of home and family).
ADDR.: R. Center Philippines, 964 Taft Avenue, Manila.
L.P.: Production Mgr.: Jess Fernandez.
HOME SCE. in **English & Tagalog: N. in English: D.** exc. Sat. 23.00. **Native Melodies**: Sun. 10.13–11.00. – (Ann.: Bill Martinez). – **V.** by QSL-card. R.p.

8) 4th Floor, Calvo Building, Escolta, Manila. **Cable**: "Bobstew".
HOME SCE. in **English, Chinese, Tagalog**: DZBB: 22.00–18.00, DZXX: 21.00–18.00, DYSS: 20.00–18.00, DYOO: 20.00–16.00.

9) Davao City, Mindanao.
HOME SCE. in English, Visayan: DZMC & DXUM: 21.00–14.00.
ANN.: "This is MCBS, The Mindanao Colleges Broadcasting System. DXMC, The Voice of Davao, broadcasting from the heart of Davao".

10) **ADDR.**: P.O. Box 1344, Manila. – DZAQ, DZBC: 5th Floor, Republic Super Market Bldg., Manila. DZRI: Blue Beach, Dagupan City. – DZMM: San Juan. – DZRB: El Morocco Hotel, Naga City.
HOME SCE. in **English, Tagalog**: DZAQ: 21.00–16.00, DZBC: 20.00–17.00, DZRI: 21.00–16.00, DZMM: 24 h. DZRB: 21.00–01.00, 04.00–14.00.

11) The Voice of the Catholic Philippines University of Santo Tomas, Espana, Manila.
L.P.: Dir. Gen.: Rev. Fr. Antonio Piñon, O.P. Dir. of Prgr.: Miss P. Guinto-Rosales. Dir. of Adm.: Atty J. Talavera Jr.
HOME SCE. in **Tagalog, English & Spanish: N. in English**: 10.15. **Mbg.** (English): 10.30 (Tues., Thurs., Sat.). **N.** in **Spanish**: 12.15. **Nat. Music (Tagalog)**: 11.00.
ANN.: E.: "This is the Voice of the Catholic Philippines, Radio Stations DZST and DZH5, broadcasting from Manila."
INT.-SIG.: Chimes. – **V.** by QSL-card. – **F.PL.**: Increase of h. of tr.

Medium Waves:

12) **Pioneer Station**, P.O. Box 121, Davao City. **L.P.**: Dir.: A. J. Wills. DXWW: 22.00–15.00. DXJW: 22.00–14.00, DXAW: 21.00–16.00 in **English, Visayan.**

13) **R. Station DZCP**, Roman Santos Bldg., Manila. – **L.P.**: Dir.: E. B. Lenn. – **HOME SCE.**: 21.00–16.00.

14) **R. Mindanao**: Cagayan de Oro City. – **L.P.**: Dir.: H. Caney. Dir. Tec.: M. Gualberto. – **HOME SCE.**: 22.00–14.00 in **English, Visayan.**

15) **Monserrat Broadcasting System**, CBN Bldg., Aduana Str., Intramuros, Manila. *HOME SCE.: DZMY: 21.00–17.00. DZYY/DZYY-FM*: 24 h.

16) **Visayan Broadcasting System**, P.O. Box 41, Iloilo City. – **L.P.**: Dir.: E. Lopez. – **HOME SCE.**: DYHF (Iloilo City): 21.00–15.00, DYLL (Tacloban): 21.00–16.00. DYRI (Iloilo City): 21.00–16.00.

17) **The Manila Chronicle Network**, Aduana, Manila.
HOME SCE.: DZXL: 21.00–15.00: DZQL: 24 h; DYXL: 21.00–16.00; DZYL/FM: 21.00–15.00.

18) **Manila Times Publishing Co.**, Manila. – **L.P.**: Dir.: F. Torres. HOME SCE.: DZMT/DZMT-FM/DZWS: 21.00–16.00.
19) **R. Station DYMM**, Bacolod City. – **L.P.**: F. R. del Rosario. HOME SCE.: 21.00–17.00.
20) **Bacolod Broadcasting System**, Lacson Str., Bacolod City. HOME SCE.: 21.00–16.00. – **V.** by QSL-card or letter.
21) **Mindanao Broadcasting Co.**, Marawi City. HOME SCE.: 22.00 –13.00.

VOICE OF AMERICA RADIO STATION IN MANILA
ADDR.: Voice of America, Washington 25, D.C., U.S.A.
STATIONS:
Medium Wave: Manila-A 920 kc/s 326 m 50 kW: 11.00–16.30.
Short Wave: Manila 7.5/50 kW: 09.00–16.30, 21.00–01.30.

kc/s	m	kc/s	m	kc/s	m	kc/s	m
9535	31.46	11790	25.45	15210	19.72	17750	16.90
11765	25.50	15200	19.74	15250	19.67		

D.PRGR.: Medium Wave: 11.00–11.30 **English**. 11.30–12.00 **Mandarin**. 12.00–16.30 **English**.
Short Wave. See U.S.A.
ANN.: "This is the Voice of America Transmitter in the Philippines."
INT.-SIG.: Choir of brass playing a 10 note version of "Columbia, the Gem of the Ocean." See U.S.A. – **V.** by QSL-card.

VOICE OF AMERICA RADIO STATION IN NORTHERN LUZON
ADDR.: Voice of America, Washington 25, D.C., U.S.A.
STATIONS:
Medium Wave: Philippines-B 1140 kc/s 263 m 1000 kW: 11.30–16.30.
Short Wave: Philippines 35/100 kW: 09.00–17.00, 22.00–02.30.

kc/s	m	kc/s	m	kc/s	m	kc/s	m
6120	49.02	11765	25.50	11895	25.22	15270	19.65
7175	41.81	11790	25.45	15125	19.83	15275	19.64
9620	31.19	11890	25.23	15185	19.76	15330	19.57
				15200	19.74	17780	16.87

D. PRGR.: Medium Wave. Short Wave. See U.S.A.
11.30–12.00 Mandarin 13.00–13.30 **English** 14.30–15.00 Mandarin
12.00–12.30 Cantonese 13.30–14.00 Amoy 15.00–15.30 Cantonese
12.30–13.00 Vietnamese 14.00–14.30 Burmese 15.30–16.00 Vietnamese
16.00–16.30 **English**
ANN.: "This is the Voice of America Transmitter in the Philippines."
INT.-SIG.: Choir of brass playing a 10 note version of "Columbia, the Gem of the Ocean." See U.S.A. – **V.** by QSL-card.
ARMED FORCES RADIO & TV SERVICE: see U.S.A.

★ RYUKYU ISLANDS ★

L.T.: GMT+9 h. – **L.**: English, Japanese.
RYUKYU BROADCASTING CORP. (Comm.)
Owned by the University of the Ryukyu Fund Raising Foundation and leased to a group of Ryukyuan business men for comm. operation.
ADDR.: C.P.O. Box 186, Naha, Okinawa. **Cable:** Rykbroadco. – HOME SCE.: KSAR 740 kc/s 3 kW. – **In Japanese:** 21.00–15.00. – KSBK 880 kc/s 341 m 0.5 kW. **In English:** 20.30–16.30. – **V.** by letter. Rp.

FAR EAST BROADCASTING CO. (Rel.)
ADDR.: Box 55, Naha, Okinawa.
STATION: KSAB 1020 kc/s 294.1 m 1 kW.
F.PL.: A 100 kW m.w. tr. at Okuma, Okinawa (850 kc/s) in 1959.

VOICE OF AMERICA RADIO STATION IN OKINAWA
ADDR.: Voice of America, Washington 25, D.C., U.S.A.
STATIONS:
Medium Wave: Okinawa-A 1180 kc/s 254 m 1000 kW: 10.30–16.30.
Short Wave: Okinawa 35/100 kW: 09.00–16.30, 21.00–01.30.
7160 kc/s 41.90 m, 9745 kc/s 30.78 m, 11960 kc/s 25.08 m, 15215 kc/s 19.72 m, 15380 kc/s 19.51 m.
D. PRGR.: Medium Wave:
10.30–11.00 Ukrainian 12.30–13.00 Mandarin 14.30–15.00 Mandarin
11.00–11.30 **English** 13.00–13.30 Korean 15.00–15.30 Russian
11.30–12.00 Mandarin 13.30–14.00 Mandarin 15.30–16.00 Mandarin
12.00–12.30 Russian 14.00–14.30 **English** 16.00–16.30 **English**
Short Wave: see U.S.A.
ANN.: "This is the Voice of America Transmitter on Okinawa."
INT.-SIG.: Choir of brass playing a 10 note version of "Columbia, the Gem of the Ocean." See U.S.A.
V. by QSL-card.
ARMED FORCES RADIO & TV SERVICE: see U.S.A.

★ SARAWAK (British) ★

L.T.: GMT+8 h. – **L.**: English, Malay, Chinese, Iban. – **Rcvrs.**: 25000.
SARAWAK BROADCASTING SERVICE (Go.)
ADDR.: Broadcasting House, Kuching. **Cable:** Broadcast. – **L.P.**: Dir. Broadc.: P. Ratcliffe. Dir. Tec.: J. R. Sandison. Dir. Prgr.: I. D. Kingsley. Asst. Dir. Tec.: L. F. Chung. Senior Prgr. Organizer: Md. Salleh Askor.
HOME SERVICES: 04.00–05.30 (Sat. & Sun. 06.30), 08.30–14.30.

850 kc/s	353	m	5	kW	1300 kc/s	231	m 0.25 kW
4860 –	61.73 –		5	–	9565 –	31.36 –	7.5 –
4950 –	60.60 –		7.5	–			

Midday Sce. on 850/9565 kc/s: 04.00–05.00 **English** Thurs., Sat., Sun ; **Malay** Mo., Wed.; **Chinese** Tues., Fri. – **D.** 05.00–05.30 (Sat. and Sun. 06.30) **English.**
Malay and English Sce. on 850/4860 kc/s: **Malay** 08.30–11.00, 12.30–13.00; **English** 11.00–12.30, 13.00–14.30.
Chinese and Iban Sce. Chinese on 1300/9565 kc/s; **Iban** 09.15–10.45; on 1300/4950 kc/s: 11.00–12.30. **Chinese** 12.30–14.00.
ANN.: **E.**: "This is Radio Sarawak". – **V.** by QSL-card or letter.
PUB.: "R. Times of Sarawak" (Fortnightly). "Iban Radio Quarterly"

★ SINGAPORE (British) ★

L.T.: GMT+7½ h. – **L.**: English, Malay. – **Rcvrs.**: 61.901.
R. SINGAPORE (Go.)
ADDR.: Dept. of Broadcasting, P.O. Box 1902, Singapore. – **Cable:** Broadcast.
L.P.: Dir. of Broadc.: H. W. Jackson. Dir. Tec.: G. S. Miller.
STATIONS: Singapore.

Call	kc/s	m	kW	Call	kc/s	m	kW
ZHL	630	476	10	ZHP	6135	48.90	7.5
ZHL2	790	380	10	ZHL10	7200	41.67	7.5
ZHL5	990	303	10	ZHL7	7250	41.38	7.5
				ZHL7	7280	41.21	7.5

DAILY PRGR's in English & Malay: 23.45–15.30. **English:** Mo.-Fri. 23.45–01.00, 05.30–06.30, 09.30–15.30. Sat. 23.45–01.30, 05.30–15.30. Sun. 23.45–04.30, 05.30–15.30.
ANN.: **E.**: "This is R. Singapore". – **INT.-SIG.**: c-c-a-g on Hawaiian Guitar. – **V.** by QSL-card.
FORCES BROADCASTING SERVICE (British Military)
ADDR.: GHQ FARELF, c/o G. P. O. Singapore. – **D. Prgr.** in Kiswahili, Chinyanja, Fijian, Gurkhali & Dayak: 12.00–14.00 (Fri. 14.15). Listeners report the frequency to be 5010 kc/s.

★ TAIWAN (Formosa) ★

L.T.: GMT+8 h. Su.: April–Oct.: GMT+9 h. – **L.**: Chinese, Mandarin, Cantonese, Fukienese. – **Rcvrs.**: 249.081.
BROADCASTING CORPORATION OF CHINA
(Private Enterprise under Go. contract)
ADDR.: New Park, Taipei. – **Cable:** "Broadcast Taipei".
L.P.: Chairman of the Board of Directors: L. Han-Chao. Managing Dir. & Dir. Foreign Rel.: J. Wei. Deputy Managing Dir.: Tao-Yi Wu, S. Lowe. Dir. Prgr.: C. Nan. Dir. Adm.: C. Tsi-Han. Dir. Tec.: Y. Shan-Hui.
STATIONS:
Medium Waves: 0.1/0.5/1/20/100 kW.
Taipei, Hsinchu, Miaoli, Taichung, Minhsiung, Chiayi, Tainan, Kaohsiung, Taitung, Yuli, Hualien, Ilan:

Call	kc/s	m	Call	kc/s	m	Call	kc/s	m
BED22	660	454	BED62	960	313	BED49	1210	248
BED23	720	416	BED24	1000	300	BED47	1280	234
BED2	750	400	BED53	1020	294	BED46	1330	227
BED27	840	357	BED26	1040	289	BED52	1380	217
BED28	860	349	BED9	1070	280	BED54	1410	217
BED25	890	337	BED32	1190	252	BED45	1450	202

Short Waves: 0.5/1/3.5/20/50 kW. Taipei, Taichung, Minhsiung:

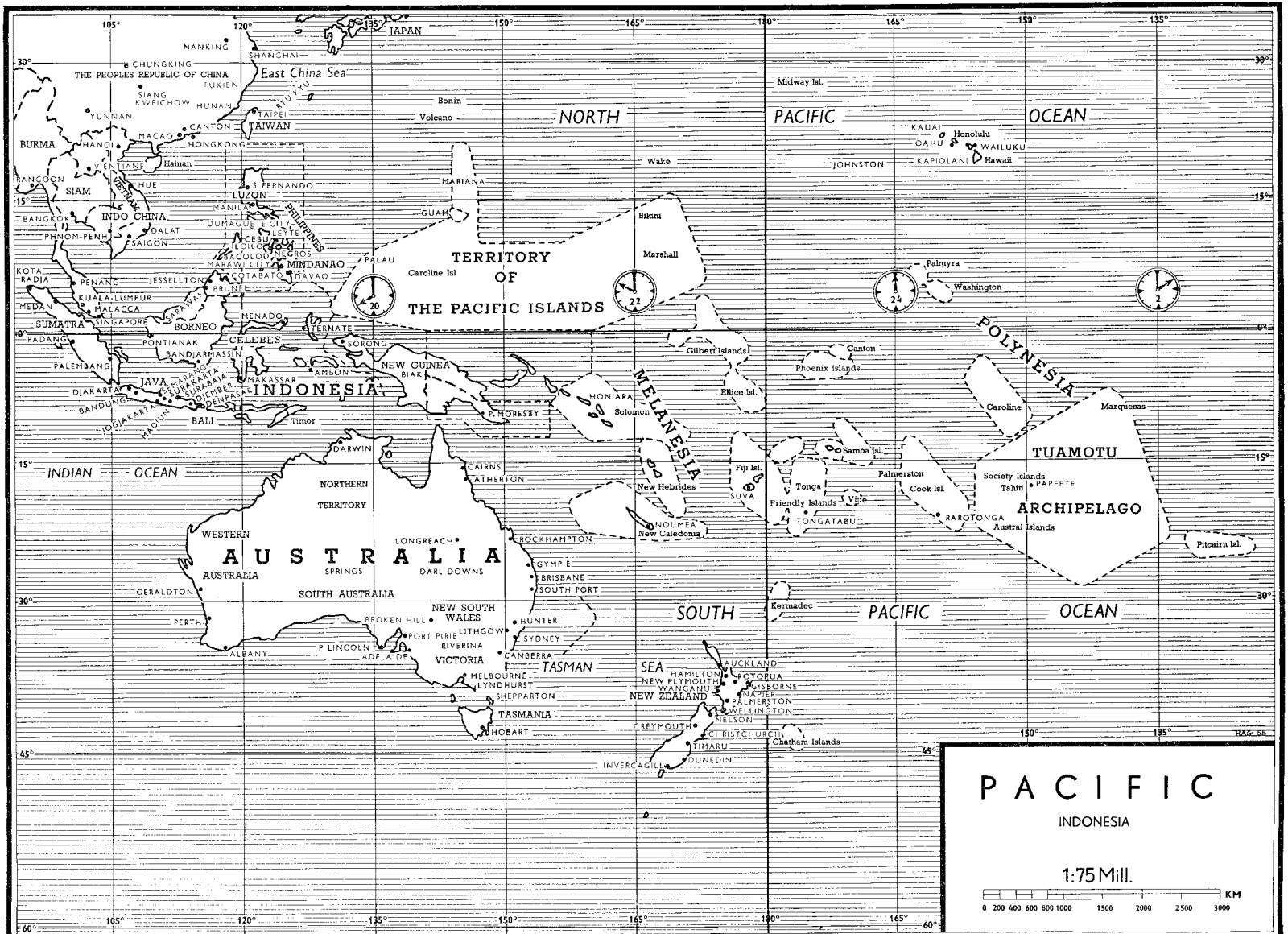
Call	kc/s	m	Call	kc/s	m	Call	kc/s	m
BED59	3215	93.30	BED6	11815	25.40	BED57	15345	19.55
BED29	5980	50.17	BED64	11840	25.34	BED39	17720	16.93
BED44	6090	49.26	BED37	11970	25.06	BED63	17810	16.84
BED7	7230	41.49	BED38	15140	19.82	BED35	17890	16.77
BED66	9575	31.33	BED5	15225	19.70			
BED36	9685	30.98						

HOME SERVICE:
22.00–16.00 on 660/1070/3215/5980/6090 kc/s.
FOREIGN SERVICE: On 7230/9575/11815/15345 kc./s:

01.30–02.00	to No.Am./Hawaii	**English** 01.30, Cantonese 01.45.
04.00–06.00	to So.Ea.Asia	Chinese. Sun. 05.30 Vietnamese.
06.15–06.45	to Au./N.Z.	**English.**
10.05–11.20	to Japan/Korea	**English** 10.05, Japanese 10.30, Korean 11.00.
11.30–12.55	to So.Ea.Asia	Mandarin 11.30, **English** 12.00.
On 7230/11840 kc/s:		
13.00–16.00	to So.Ea.Asia	Chinese. Sun. 14.30–15.00 Vietnamese.
On 7230/11815 kc/s:		
19.20–19.40	to Mi.East	Arabic.

ANN.: **Home Sce.**: **E.**: "This is the (1st, 2nd, or 3rd) network of BBC". **Foreign Sce.**: **E.**: "This is the Voice of Free China, Taipei, Taiwan".
V. by QSL-card or letter. **R.p.** – **PUB.**: prgr.schedule free on request.

THE VOICE OF RIGHTEOUSNESS (Rel.) BEC36
ADDR.: Shih-lin, Taipei. – **L.P.**: Dir. S. H. Shia.


PACIFIC
INDONESIA
1:75 Mill.
KM
0 200 400 600 800 1000 1500 2000 2500 3000
NORTH PACIFIC OCEAN
SOUTH PACIFIC OCEAN
INDIAN OCEAN
TASMAN SEA
TERRITORY OF THE PACIFIC ISLANDS
MELANESIA
POLYNESIA
TUAMOTU ARCHIPELAGO
AUSTRALIA
INDONESIA
NEW GUINEA
NEW ZEALAND
TASMANIA
VICTORIA
NEW SOUTH WALES
SOUTH AUSTRALIA
WESTERN AUSTRALIA
NORTHERN TERRITORY
East China Sea
THE PEOPLES REPUBLIC OF CHINA
JAPAN
TAIWAN
BURMA
SIAM
INDO CHINA
LUZON
MINDANAO
PHILIPPINES
BORNEO
CELEBES
SUMATRA
JAVA
BALI
Timor
Bonin
Volcano
Midway Isl.
Wake
JOHNSTON
Honolulu
Hawaii
Palmyra
Washington
Caroline Isl
Bikini
Marshall
Gilbert Islands
Canton
Phoenix Islands
Ellice Isl.
Solomon
New Hebrides
New Caledonia
Fiji Isl.
Tonga
Friendly Islands
Samoa Isl.
Palmerston
Cook Isl.
Society Islands
Tahiti
Austral Islands
Pitcairn Isl.
Kermadec
Chatham Islands
Caroline
Marquesas
Tonga
Vide
Kaua
Oahu
Wailuku
Kapiolani
Mariana
Guam
Palau
Hainan
Hue
Saigon
Dalat
Bangkok
Penang
Malacca
Singapore
Pontianak
Bandjarmassin
Makassar
Ambon
Biak
Sorong
Ternate
Menado
Bali
Djakarta
Bandung
Jogjakarta
Madiun
Djember
Surabaja
Surakarta
Semarang
Denpasar
Jessellton
Brunei
Sarawak
Kuala Lumpur
Kota Radja
Medan
Padang
Palembang
Rangoon
Phnom-Penh
Vientiane
Hanoi
Macao
Hongkong
Canton
Taipei
Fukien
Hunan
Siang
Kweichow
Yunnan
Chungking
Nanking
Shanghai
Ryukyu
Manila
Dumaguete City
Leyte
Cebu
Iloilo
Bacolod
Negros
Marawi City
Cotabato
Davao
S. Fernando
Darwin
Cairns
Atherton
Longreach
Springs
Darl Downs
Rockhampton
Gympie
Brisbane
South Port
Broken Hill
Port Pirie
Lithgow
Hunter
Sydney
Canberra
Riverina
Adelaide
P. Lincoln
Albany
Perth
Geraldton
Melbourne
Lyndhurst
Shepparton
Hobart
Auckland
Hamilton
Rotorua
New Plymouth
Wanganui
Gisborne
Napier
Palmerston
Wellington
Nelson
Greymouth
Christchurch
Timaru
Dunedin
Invercagill
105° 120° 135° 150° 165° 180° 165° 150° 135°
30° 15° 0° 15° 30° 45° 60°
20 22 24 2

Taipei	1480 kc/s	202.7 m	0.5 kW	}	22.00–23.00, 00.00–02.00
–	5995 –	50.04 –	3.5 –	}	04.00–05.45, 12.00–17.50
–	7300 –	41.10 –	3.5 –	}	English: 01.30–02.00

ANN.: E.: "This is the Voice of Righteousness from Taipei". – V. by QSL-card or letter.

MILITARY BROADCASTING STATIONS (Go.)

ADDR. of Adm.: Military Broadcasting Corps, Ministry of National Defense, Taipei.

STATIONS:

Call	kc/s	m	kW	Call	kc/s	m	kW
1) BEC29	850	353	1	5) BEC24	9510	31.55	1.5
2) BEC32	980	306.0	1	6) BEC26	1130	265.5	1.5
	6106	49.14	3		5965	50.28	1.5
	9775	30.69	3	7) BEC25	1350	223.0	1
3) BEC22	1100	273.0	3	8) BEC28	700	428.0	0.5
4) BEC23	1200	250	1		5950	50.42	3.5
	7140	42.02	1		9745	30.78	3.5
5) BEC24	1250	240.0	1.5				

1) Kinmen (Quemoy).
2) Air Force Broadcasting Station 1507 Chungcheng Road, Taipei. – **D. Prgr.:** 22.00–00.30, 03.55–06.00, 09.00–16.00.
3) No. 3, **Section** I, Hsinyi Rd., Taipei. – **D. Prgr.:** 22.00–00.30, 03.30–07.00, 09.30–16.00.
4) Behind the Taichung Municipal Govt., Taichung. – **D. Prgr.:** 22.00–01.00, 03.00–07.00, 09.30–16.00.
5) 126 Takanpu, Kaohsiung. – **D. Prgr.:** 22.00–01.00, 03.30–06.30, 09.30–16.30. – ANN.: E.: "This is the Voice of Chinese Armed Forces. R. Station BEC24 in Kaohsiung, Taiwan". – V. by QSL-card.
6) New Army Broadcasting Station, Tsoying. – **D. Prgr.:** as 4).
7) Hualien. – **D. Prgr.:** 22.00–24.00, 03.30–06.30, 09.30–15.30.
8) No. 3, Section I, Hsinyi Rd., Taipei. – **D. Prgr.:** 01.00–03.00, 07.00–09.00, 16.00–18.00.

POLICE BROADCASTING STATION (Go.)

ADDR.: No. 1 Tientsin Road, Taipei. – **L.P.:** Dir. Gen.: W. Pi. Vice Dir.: C. Y. Tuan. Dir. Tec.: C. C. Yin.

HOME SERVICE: 21.30–00.33, 02.55–06.00, 08.30–16.02.

BEC38 0.5 kW: 940 kc/s 319.1 m – 5960 kc/s 50.34 m

N.: 22,20, 04.20, 13.00. – **Nat. Music:** 22.40, 08.45. – **Mbg.:** 22.30, 11.40. – **Wrp.:** 00.00, 05.00, 16.00.

ANN.: E.: "This is BEC38 Taiwan Police Broadc. Station in Taiwan, China". – V. by QSL-card or letter. – **PUB.:** Sched. on request. – **F.PL.:** New relay st.

TAIWAN COMMERCIAL BROADCASTING STATIONS ASSOCIATION

ADDR.: 22 Lane 81, Maoy Str., Taipei. – **L.P.:** Secr. Gen.: L. Teh-Chih.

Short Wave: 1) BEG23 7180 kc/s 41.78 m 1 kW.

Medium Waves: ° Short Wave.

Call	kc/s	kW	Call	kc/s	kW	Call	kc/s	kW
2) BEV88	770	1	11) BEV82	1060	1	16) BEV45	1310	1
3) BEV60	780	1	12) BEV84	1110	1	10) BEV50	1340	1
4) BEV54	810	1	1) BEG22°	1150	1	17) BEV72	1370	0.5
5) BEV34	820	0.5	13) BEV67	1160	1	18) BEV62	1390	1
6) BEV56	830	1	14) BEV	1220	1	14) BEV70	1400	1
7) BEV52	870	1	11) BEV23	1240	1	16) BEV45	1420	1
8) BEV78	910	1	15) BEV58	1260	1	11) BEV24	1460	1.5
9) BEV92	1010	1	5) BEV35	1270	0.1	19) BEV85	1480	1.2
10) BEV50	1040	1						

1) **You Sze Broadc. St.,** 49 Kun Ming St. Taipei.
2) **Shen Sheng Broadc. St.,** 1 Chin St., Tsoa-yun, Tainan: 23.00–16.00.
3) **Cheng-Yen Broadc. St.,** Kong Shan: 22.00–17.00. V. by letter.
4) **Kuo-Shen Broadc. St.,** Pa-Kau-Shan, Chan-Hwa Hsien: 22.00–05.00.
5) **Cheng Sheng Broadc. St.,** Shih-Lin, Taipei. – **D. Prgr.:** BEV34: W. 22.00–18.05. Sun. 02.00–17.05. BEV35: 22.00–17.05.
6) **Sheng-Lih Broadc. St.,** 4 Chien Kang Rd., Tainan.
7) **Chung Sheng Broadc. St.,** 1 Chih Chiang St., Taichung.
8) **Yi-Shih Broadc. St. (Catholic),** 107 Jen 1st Rd. Keelung. – **L.P.:** Dir. Gen.: Rev. M. Y. Mou-Shih. – **D. Prgr.:** 00.00–15.45.
9) **Tien Nan Broadc. St.,** No. 31, Hang Chow South Rd., Sect. II, Taipei: 23.00–16.00. – V. by letter.
10) **Chung Hwa Broadc. St.,** 80 Central North Rd., Shang Chung Pu, Taipei. – **L.P.:** Dir. Gen. Ch'en Pu. – **D. Prgr.:** 22.00–16.00.
11) **Ming Pen Broadc. St.,** BEV23 & BEV24: 106 Wu Chang St., Sec 2, Taipei. BEV82: I Lan City Park. – **D. Prgr.:** BEV23/24: 23.00–16.00. BEV82: 00.00–15.00. To Chinese Mainland: 23.00–24.00 & 15.00–17.00.
12) **Chung-Shing Broadc. St.,** 712 Chung Cheng Rd., Tsaotwen, Nantao.
13) **Chu Broadc. St.,** 4 Ta Kung Rd., Kaohsiung: 23.00–16.00.
14) **Hwa Sheng Br. St.,** Ta-ma Rd. Shih-Lin, Taipei. – **L.P.:** Mgr. C. Y. Lee. – **D. Prgr.:** 22.55–16.00. – V. by letter.
15) **China Farmers Broadc. St.** – **D. Prgr.:** 21.00–00.30, 00.50–06.00, 06.25–15.00.
16) **Ming-Sheng Broadc. St.,** 22 Lane 81, Amoy Street, Taipei. – **L.P.:** Dir. Gen.: W. C. L. Lu. – **D. Prgr.:** 23.30–16.00. – V. by letter.
17) **Kung I Broadc. St.** – **D. Prgr.:** 22.25–01.30, 02.25–06.00, 07.55–16.00.
18) **Tai Sheng Broadc. St.,** 25 Chung Cheng Rd., Hsinchu.
19) **Chien Kao Broadc. St.,** No. 21, Wu-Chang Street, Shin Ying. – **L.P.:** Dir. Gen.: C. S. Ma. Dir. Tec.: S. Y. Ling. – **D. Prgr.:** 23.00–24.00. V. by letter. R.p. – **F.PL.:** New st. with 1.6 kW.

ARMED FORCES RADIO TAIWAN (U.S. Armed Forces)

ADDR.: APO63, San Francisco, California, U.S.A.

L.P.: Mgr.: CWO H. L. Arison Jr. Dir. of Prgr.: J. M. Brooks, DNC.

D. Prgr. in English: W. 21.55–16.00. Sun. 23.55–16.00.

1560 kc/s 192 m 1 kW – 7215 kc/s 41.58 m 1 kW

N.: 23.00(W), 01.00, 02.00, 03.00, 06.00, 08.00, 10.00.

ANN.: "Armed Forces Radio Taiwan, in Taipei" followed by time announcement. – V. by QSL-card.

★ THAILAND ★

L.T.: GMT+7 h. – L.: Thai. – Rcvrs.: 250.000.

THE THAI NATIONAL BROADCASTING STATION (Go.)

ADDR.: Public Relations Department, Bangkok.

HOME SERVICE: D. 00.00–01.00, 12.00–15.30.

	kc/s	m	kW		kc/s	m	kW
HSK	825	363.0	10	HSK6	7140	42.02	1
HSK	4830	62.10	1	HSK7	11910	25.18	0.5
HSK5	6070	49.42	1	HSK8	15630	19.19	0.25

FOREIGN SERVICE: HSK9 11670 kc/s 25.71 m 50 kW.

General Overseas Sce.: 10.25–11.57. N. in English: 10.30. – Rel. Home Sce.: 13.00–14.00.

No. American Service: 04.15–05.15. N. in E.: 04.25.

ANN.: E.: "This is the Overseas Broadcasting Station of Thailand".

INT.-SIG.: Chimes. – V. by QSL-card and letter.

MINISTRY OF EDUCATION (Go.)

ADDR.: Division of Educational Inf., Ministry of Education, Bangkok. – **L.P.:** Chairman of Executive Board of Education Broadc. Sce.: M. L. Pin Malakul. Mgr.: S. Herabat. Secr. Gen., Dir. Div. of Education: Mrs. A. Meesook. Dir. Tec.: S. Hongpromyat.

HOME SCE.: 11.00–14.00 in Thai, English:

1172 kc/s 255.8 m 2 kW – 3202 kc/s 93.69 m 2 kW – 6062 kc/s 49.48 m 2 kW.

N.: 11.35, 13.00. – Nat. music: 12.10–13.00. – English: Wed. 11.50–12.10; one Tues. and one Thurs. monthly 12.10–13.00.

ANN.: E.: "This is the Education Broadcasting Station of Thailand, broadcasting on a frequency of...". – V. by letter. – **F.PL.:** Increase to 10 kW.

PITUKSUNTIRADSE RADIO STATION (Police Broadcasting Station-Go.)

ADDR.: Paruksakaveen Palace, Bangkok.

HOME SCE. in Thai: HSQ – 1 kW: 09.00–15.00.

900 kc/s 333 m – 4770 kc/s 62.89 m – 7080 kc/s 42.37 m

N.: 11.30–11.45. – L.L.: English: 10.00–10.20.

FOREIGN SCE. in Arabic & Malay: 01.30–04.00 on all freqs.

★ VIETNAM (Republic) ★

L.T.: GMT+7 h. – L.: Vietnamese, French, Chinese. – Rcvrs.: 100.000.

THE NATIONAL BROADCASTING SYSTEM OF THE REPUBLIC OF VIETNAM (Go.)

Called "VTVN" (Standing for Vô-Tuyên Viêtnam).

ADDR.: 3 Duong Phan-dinh-Phung, Saigon. – **L.P.:** Dir. Gen.: Buu-Tho. Dir. Tec.: Le-Van-Duyen. Dir. Prgr.: Buu-Nghi. Dir. Adm.: Ngo-Van-Sieng.

STATIONS: Radio VTVN Saigon:

838 kc	358 m	1 kW	–	7260 kc	41.32 m	12 kW
1090 –	275 –	5 –	–	9620 –	31.19 –	12 –
1360 –	220 –	1 –	–	9754 –	30.76 –	25 –

HOME SERVICE:

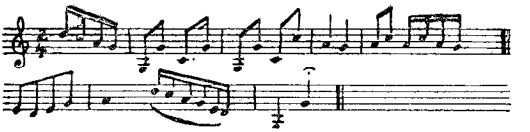
On 1090, 6165, 9754 kc/s: Vietnamese: 22.45–02.30, 04.00–06.30, 09.00–16.00. **Nat. Music:** 22.45, 23.15, 01.00, 04.00, 04.45, 05.50, 09.00, 09.45, 10.45, 12.00, 12.45, 13.20, 14.15. **N.:** 23.00, 24.00, 00.30, 00.45, 01.15, 04.00, 04.35, 05.35, 06.00, 09.30, 10.30, 11.30, 12.30, 13.00, 14.00, 15.00, 15.30. **Wrp.:** 23.00, 06.30, 15.45. **Mbg.:** Sun. 02.00. – **English, French: Music:** 00.15, 00.35, 06.15, 15.10.

On 838, 7260 kc: Vietnamese: 22.58–00.15, 01.15–02.30, 04.30–06.15, 07.00–08.15, 10.00–13.15, – **Thai:** 00.45–01.15, 13.15–13.45. – **English:** 00.15–00.45, 06.15–07.00, 13.45–14.45. **L.L:** 14.45. **Music:** 15.45.

On 1360, 9620 kc: Vietnamese: 22.58–00.00, 04.30–05.00, 06.00–06.30, 15.30–16.00. – **French:** 00.40–01.00, 05.00–06.00, 11.30–15.30. – **Cambodian:** 11.00–11.30. – **Chinese:** 01.00–02.15, 06.30–08.15, 10.00–11.00.

ANN.: **Vietnamese:** "Day la Dai Phat-thanh VTVN Saigon, Tieng Noi Nuoc Vietnam Cong-Hoa". **French:** "Ici VTVN Saigon, la voix de la République du Vietnam". **English:** "This is RVTVN. The Voice of the Republic of Vietnam broadcasting from Saigon."

INT.-SIG.:



V. by letter and QSL-card. R.p. – **F.PL.**: New sts. Increase power.
REGIONAL STATIONS (in Vietnamese only):
R. VTVN HUE: 22.30–23.30, 02.30–03.30, 04.30–05.30, 10.00–13.50. 1150 kc/s 261 m 1 kW – 7205 kc/s 41.63 m 1 kW.
R. VTVN DALAT: 23.00–24.00, 10.00–12.45. 1440 kc/s 208 m 1 kW – 6183 kc/s 42.52 m 1 kW.
R. VTVN NHATRANG: 1490 kc/s 201 m 1 kW. 23.00–00.30, 04.30–06.30, 10.30–14.00.

★ VIETNAM (Democratic Republic) ★

L.T.: GMT+7 h. – **L.**: Vietnamese, English, French, Cambodian, Chinese, Laotian.
THE VOICE OF VIETNAM (Go.)
ADDR.: No. 58, Quan-Su Street, Hanoi.
STATIONS: Hanoi.

1155 kc/s	259.8 m	7400 kc/s	40.54 m	11745 kc/s	25.54 m
4795 –	62.57 –	9900 –	30.30 –	12000 –	25.00 –
6100 –	49.18 –	9940 –	30.18 –	15020 –	19.98 –

HOME SCE. in Vietnamese: 22.30–01.30, 04.30–07.15, 11.00–15.15. **N.**: 22.45, 23.00, 01.15, 04.30, 11.00, 14.30.
FOREIGN SCE.: **English**: 22.00–22.30 (dictation), 09.30–10.00, 15.15–15.30, 15.45–16.10 (dictation). – **French**: 05.30–06.00. – **Standard Chinese**: 03.30–04.00. – **Cantonese**: 10.00–10.30. – **Cambodian**: 04.00–04.30. – **Laotian**: 10.30–11.00. – **ANN.**: **E.**: "This is the Voice of Vietnam, Hanoi". – V. by QSL-card or letter.

★ VOLCANO ISLANDS ★

L.T.: GMT+9 h. – **L.**: English.
ARMED FORCES RADIO AND TELEVISION SCE. (see USA).

PACIFIC

★ AUSTRALIA ★

L.T.: E.Au.: GMT+10 h.; S. Au.: GMT+9½ h.; W.Au.: GMT+8 h. **L.**: English. – **Revrs.**: 2.146.608.

AUSTRALIAN BROADCASTING COMMISSION (ABC)

The Australian National Broadcasting Sce. prgrs. are the responsibility of the ABC, which is responsible to the Postmaster-General. The technical sces. for Sound are provided by the Postmaster-General's Dept., and for TV by ABC staff.
ADDR.: **Head Office**: Australian Broadcasting Commission, 264 Pitt Street, Sydney. – **Overseas Sce.**: Radio Australia, P.O. Box 428G, G.P.O., Melbourne. – **Cable**: ABCOM SYDNEY.
L.P.: Chairman: Sir Richard Boyer. Vice-Chairman: E. R. Dawes. Gen. Mgr.: C. J. A. Moses. Asst. Gen. Mgr.: A. N. Finlay. Controller of Prgr.: Dr. K. L. Barry. Controller Adm.: T. S. Duckmanton. Dir. Music: H. Cannon. Dir. Finance: R. G. Gifford. Dir. Drama & Features: N. Hutchison. Dir. Light Entertainm.: D. Porter. Dir. Youth Education: C. Bull. Dir. Talks: A. Carmichael. Supervisor Religious Broadc.: Dr. J. Munro. Dir. Rural Broadc.: J. Douglass. Supervisor Sporting Broadc.: B. Kerr. Supervisor Childrens Hour: J. Appleton. Concert Mgr.: R. Lamb. Editor-in-Chief: W. Hamilton. Dir. Prgrs. (Overseas): P. W. R. Homfray.

THE NATIONAL BROADCASTING SERVICE

MEDIUM WAVE SERVICE [1]=Metropolitan. [2]=Regional.

Call	kc/s	kW	Name/Location	h. of tr.
Australian Capital Territory				
2CY[2]	850	10	Canberra	20.00(Sun.20.30)–13.30(Sat.14.00)
2CN[1]	1540	2	Canberra	20.00–13.00(daily)
New South Wales				
2CR[2]	550	10	Orange	20.00(Sun.20.30)–13.30(Sat.14.00)
2ML[2]	560	0.2	Murwillumbah	20.00(Sun.20.30)–13.30(Sat.14.00)
2FC[1]	610	10	Sydney	20.00–13.30(Sat.14.00)
2NU[2]	650	10	Tamworth	20.00(Sun.20.30)–13.30(Sat.14.00)
2CO[2]	670	10	Albury	
2KP[2]	680	10	Kempsey	
2NR[2]	700	50	Grafton	
2TR[2]	720	0.2	Taree	
2BL[1]	740	10	Sydney	20.00(Sun.20.30)–13.00
2NB[2]	760	1	Broken Hill	20.30(Sun.21.00)–14.00(Sat.14.30)
2BA[2]	810	10	Bega	20.00(Sun.20.30)–13.30(Sat.14.00)
2GL[2]	820	10	Glen Innes	20.00(Sun.20.30)–13.30(Sat.14.00)
2NC[2]	1230	10	Newcastle	20.00(Sun.20.30)–13.00
2NA[2]	1510	10	Newcastle	20.00–13.30(Sat.14.00)
2LG[2]	1570	0.2	Lithgow	20.00(Sun.20.30)–13.30(Sat.14.00)
2WN[2]	1580	2	Wollongong	
Victoria				
3WV[2]	580	10	Horsham	20.00(Sun.20.30)–13.30(Sat.14.00)
3AR[1]	620	10	Melbourne	20.00–13.00(Sat.14.00)
3LO[1]	770	10	Melbourne	20.00(Sun.20.30)–13.00
3GI[2]	830	7	Sale	20.00(Sun.20.30)–13.30(Sat.14.00)
3WL[2]	1570	0.2	Warrnambool	
Queensland				
4QL[2]	540	10	Longreach	20.00(Sun.20.30)–13.30(Sat.14.00)
4QR[1]	590	10	Brisbane	20.00(Sun.20.30)–13.00
4AT[2]	600	0.5	Atherton	20.00(Sun.20.30)–13.30(Sat.14.00)
4QN[2]	630	7	Townsville	
4QA[2]	720	2	Mackay	
4QS[2]	750	10	Toowoomba	
4QG[1]	790	10	Brisbane	20.00–13.30(Sat.14.00)
4RK[2]	840	10	Rockhampton	20.00(Sun.20.30)–13.30(Sat.14.00)
4QB[2]	910	2	Maryborough	
4QY[2]	940	2	Cairns	
4GM[2]	1570	0.2	Gympie	
4SO[2]	1590	0.2	Southport	
South Australia				
5CK[2]	640	10	Port Pirie	20.30(Sun.21.00)–14.00(Sat.14.30)
5CL[1]	730	5	Adelaide	20.30–14.00(Sat.14.30)
5AN[1]	890	2	Adelaide	20.30(Sun.21.00)–14.00(Sun.13.30)
5PA[2]	1160	2	Penola	20.30(Sun.21.00)–14.00(Sat.14.30)
5LN[2]	1530	0.2	Port Lincoln	
5WM[2]	1580	0.05	Woomera Rocket Range	
5MG[2]	1580	0.2	Mt. Gambier	
5MW[2]	1590	2	Renmark	
Western Australia				
6WA[2]	560	50	Wagin	22.00(Sun.22.30)–15.30(Sat.16.00)
6NM[2]	600	0.2	Northam	
6AL[2]	650	0.4	Albany	
6WF[1]	690	5	Perth	22.00–15.30(Sat.16 00)
6GF[2]	720	2	Kalgoorlie	22 00(Sun.22.30)–15.30(Sat.16.00)
6WN[1]	810	10	Perth	22.00(Sun.22.30)–15.00
6GN[2]	830	2	Geraldton	22.00(Sun.22.30)–15.30(Sat.16 00)
Tasmania				
7ZL[1]	600	10	Hobart	20.00–13.30(Sat.14.00)
7QN[2]	630	0.2	Queenstown	20.00(Sun.20.30)–13.30(Sat.14.00)
7NT[2]	710	10	Launceston	20.00(Sun.20.30)–13.30(Sat.14.00)
7ZR[1]	940	10	Hobart	20.00(Sun.20.30)–13.00
Northern Territory				
5DR[2]	1500	2	Darwin	20.30(Sun.21.00)–14.00(Sat.14.30)
5AL[2]	1530	0.2	Alice Springs	

Papua/New Guinea: 9PA 1250 kc/s 0.5 kW Port Moresby.
Mo.–Fri.: 20.45–12.45. Sat.: 20.45–23.30, 02.00–13.00.
Sun.: 21.45–04.00, 06.00–12.15.
FM SCE. (Exp.): D.: 01.00–13.00, exc. Adelaide: D. 01.30–13.30.

Melbourne	91.1 mc/s 2 kW	Sydney	92.1 mc/s 2 kW
Brisbane	91.1 mc/s 1 kW	Adelaide	97.3 mc/s 3 kW

DOMESTIC SHORT WAVE SERVICE:

ADDR.: **Sydney**: A.B.C., Box 487, G.P.O. – **Melbourne**: A.B.C., Box 1686, G.P.O. – **Brisbane**: A.B.C., Box 293E, G.P.O. – **Perth**: A.B.C., Box 190D, G.P.O. – **Port Moresby**: A.B.C., Port Moresby.
STATIONS: Sydney: VLI (2 kW). – **Melbourne**: VLH (10 kW) & VLR (5 kW). – **Brisbane**: VLQ (10 kW) & VLM (10 kW). – **Perth**: VLW kW) & VLX (10 kW). – **Port Moresby**: VIT (2 kW).

Call	kc/s	m	h. of tr.
VLI6	6090	49.26	20.00(Sun.20.30)–13.30(Sat.14.00)
VLH11	11880	25.25	20.00(Sun.20.30)–23.15(Sat.22.45)
VLH15	15230	19.70	23.30(Sat.23.00)–08.15
VLH9	9680	30.99	08.30–13.30(Sat.14.00)
VLR6	6150	48.78	20.00(Sun.20.30)–22.15(Sat.22.30), 08.30–13.00
VLR9	9680	30.99	22.30(Sat.22.45)–08.30
VLQ9	9660	31.06	20.00(Sun.20.30)–13.30(Sat.14.00, Sun.13.00)
VLM4	4920	60.98	20.00(Sun.20.30)–13.30(Sat.14.00)
VLW9	9610	31.22	22.00(Sun.22.30)–00.00, 10.20–15.30(Sat.16.00)
VLW11	11840	25.34	00.15–10.05
VLX4	4897	61.25	22.00(Sun.22.30)–00.00
VLX9	9610	31.22	00.15–10.05
VLX6	6140	48.86	10.20–15.30
VLT6	6130	48.94	Mo.–Fri.: 20.45–04.45, 06.00–12.45. Sat.: 20.45–23.30, 02.00–13.00. Sun.: 21.45–04.00, 06.00–12.00

N.: 20.00, 20.45, 21.45 (Sun. 22.45), 02.30, 03.30, 06.00 (BBC & Au.), 09.00, 11.00, 13.00 (BBC & Au.).
NOTE: Although times are in GMT, calendar days apply to the Ea. States of Au. only. – **ANN.**: Expl.: "This is A.B.C.... 2BL Sydney, 2NC Newcastle and New South Wales Regional Stations... the time is...". – **INT.-SIG.**: Three Gongs (C.F.A.). – **PUB.**: The ABC Weekly-

TV News. – R. Australia Prgr. Guide. Schools Broadcasts booklets.

OVERSEAS SERVICE (R. AUSTRALIA)

ADDR.: Radio Australia, P.O. Box 428 G, G.P.O., Melbourne.
Transmitters: Shepparton VLA, VLB 100 kW, VLC, VLD 50 kW. **Lyndhurst** VLG 10 kW.

VLA6, VLB6, VLC6, VLD6, VLG6: 6070 kc 49.42 m – 6170 kc 48.62 m

VLA7, VLB7, VLC7, VLD7, VLG7:

7135	42.05	7220	41.55
7205	41.64	7240	41.44
7215	41.58	7280	41.21

VLA9, VLB9, VLC9, VLD9, VLG9:

9510	31.55	9580	31.32
9520	31.51	9615	31.20
9540	31.45	9635	31.14
9560	31.28	9650	31.09
		9680	30.99

VLA11, VLB11, VLC11, VLD11, VLG11:

11710	25.62	11840	25.34
11740	25.55	11850	25.32
11760	25.51	11870	25.27
11770	25.49	11880	25.25
11810	25.40	11900	25.21
		11945	25.12

VLA15, VLB15, VLC15, VLD15 VLG15:

15120	19.84	15230	19.70
15160	19.79	15240	19.68
15175	19.77	15315	19.59
15200	19.74	15320	19.58
15210	19.72	15425	19.45
15220	19.71		

VLA17, VLB17, VLC17, VLD17, VLG17:

17710	16.94	17840	16.82
17790	16.86	17860	16.80
17800	16.85		

VLA21, VLB21, VLC21, VLD21, VLG21:

21475	13.97	21600	13.89
21540	13.93	21680	13.84
21590	13.90		

VLA25, VLB25, VLC25, VLD25:

25675	11.68	25820	11.62

SERVICES: I: So., So.Ea. & We. As. – II: No.Ea. As., No. Pa. Isl. – III: So. Pa. Isl. – IV: Mid. Pa. Isl. – V: Br. Isl., Eu. – VI: No. Am. (Ea). – VII: No. Am. (We.). – VIII: Af.

		1*)	2*)	3*)	4*)
ENGLISH:		m.b.	m.b.	m.b.	m.b.
I	22.14–22.30	16–19–25	16–19–25	16–19–25	16–19–25
	22.30–23.15	19–25	19–25	19–25	19–25
	23.15–23.30	19	19	19	19
	23.30–00.30	13–16–19	13–16–19	13–16–19	13–16–19
	00.30–04.30	13–16	13–16	13–16	13–16
	04.30–05.45	13–16–19	13–16–19	13–16–19	13–16–19
	05.45–06.30	13–19	13–19	13–19	13–19
	06.30–07.30	13	13	13	13
	07.30–09.30	13–19	13–19	13–19	13–19
	09.30–09.45	13–19–41	13–19–41	13–19–41	13–19–41
	09.45–10.00	19–41	19–41	19–41	19–41
	10.00–13.15	31	31	31	31
	13.15–13.30	31–41	31–41	31–41	31–41
	13.30–17.30	25–31–41	25–31–41	25–31–41	25–31–41
II	07.44–10.00	25	25	25	25
	10.00–12.00	19–25	19–25	19–25	19–25
	12.00–14.00	19	19	19	19
	20.59–00.30	19	19	19	19
III	06.00–06.30	19–25	19–25	19–25	19–25
	07.30–09.15	25	25	25	25
	20.00–22.00	19	19	19	19
IV	08.30–09.45	25	25	25	25
	20.00–22.00	16	16	16	16
V	06.00–07.30		25	25	
	07.44–09.00	25			25
VI	12.14–13.45	25	25	25	25
VII	15.14–16.15	25	25	25	25
VIII	04.29–05.45	13	13	13	13
FRENCH:					
I	06.30–07.30	19	19	19	19
III	06.30–07.30	19	19	19	19
IV	06.30–08.30	25	25	25	25
V	06.30–07.30	19	19	19	19
INDONESIAN:					
I	22.30–23.30	16–19	16–19	16–19	16–19
	10.00–11.00	19–41	19–41	19–41	19–41
MANDARIN:					
I/II	11.00–12.15	19–41	19–41	19–41	19–41
THAI:					
I	12.15–13.15	19–41	19–41	19–41	19–41

*) 1 = Jan.–March; 2 = Apr.–June; 3 = July–Sept.; 4 = Oct.–Dec.

All Radio Australia freq. are subject to alteration and the details of any proposed changes are given in the transmissions concerned for three days before becoming effective and in the "Transmission parade" and "DX-ers Calling".

FIXED PROGRAMMES in English:

MAILBAGS: (Pa.) Sat. 21.15, Sun.: 00.45, 04.45, 11.30, 16.30. – (N. Am.) Sun.: 13.00, 15.45. – (Br. Isl. and Eu.) Sun. 08.15: per. 1–4, 06.30 per. 2–3. – **N.:** 00.15, 03.00, 05.00, 05.15, 06.00, 07.00, 08.30 per. 1–4 09.00, 10.25 (dictation), 11.00, 12.15, 13.00, 13.15, 14.00, 15.30, 17.00, 20.00, 21.00, 21.45, 23.15. **N. Commentaries:** Mo.-Fri.: 07.10, 08.40 per. 1–4, 09.10, 11.10, 12.25, 13.10, 14.10, 15.40, 17.10. – **REQUEST PRGR.: "Music while you work":** Mo.-Fri. 05.30. – **"Listener's Choice":** Sun. 11.15, Sat. 14.10, Sun.-Fri. 14.30. – **"Music by Request":** W. 23.30. – **"My Song Goes Round the World":** Fri. 16.30, Sat. 04.30, 05.15, 06.30 per. 2–3, 08.00 per. 1–4, 12.25, 13.30, "For Ships at Sea": Sat. 08.00. – **NATIONAL MUSIC: "Australian Artists Perform":** Mo.: 12.45, 15.45, 22.45. Tues.: 05.00, 06.15 per. 2–3, 08.00 per. 1–4, 12.00. Thurs. 22.45, Fri. 04.30, 06.15 per. 2–3, 08.00 per. 1–4, 15.45. – **"Young Australia Recital":** Sun. Fri. 03.30. Mo. 16.45. Thurs. 06.15 per. 2–3, 08.15 per. 1–4. – **SPORT: "Sporting Highlights":** Mo.-Sat.: 08.30, 12.15. – "Sporting Digest": Wed. 06.15 per. 2–3, 07.50 per. 1–4, 13.32, 15.15, 20.30. Thurs.: 05.30. Descriptions and results of major sporting events in Australia are broadcast Sat. 02.45–07.30. – **DX-PRGR.: "DX-ers Calling":** Sat. 22.00, Sun. 05.30, 07.15 per. 2–3, 08.45 per. 1–4, 13.30, 16.00. – **PRGR. PREVIEW:** A prgr. summary is given at the start of each daily tr. A preview of tomorrow's prgr. is given three minutes before the close of transmissions.

FIXED PROGRAMMES in French, Indonesian, Thai, Mandarin:

FRENCH: **N.:** 06.45, 07.45. – **N. Commentary:** Mo.-Fri.: 06.55, 07.55. – **INDONESIAN: N.:** 10.30, 23.00. – **N. Commentary:** Mo.-Fri.: 10.40. – **MANDARIN: N.:** 11.30. – **N. Commentary:** Mo.-Fri. 11.40. – **THAI: N.:** 12.45. – **N. Commentary:** Mo.-Fri. 12.55.

ANN.: "This is Radio Australia transmitting the Overseas Service from the Melbourne studios of the A.B.C." – "You are tuned to R. Australia, the Overseas Service of the A.B.C." Transmitter call-signs, freq's and wavelengths are given at frequent intervals.

PRIVATELY OWNED COMMERCIAL BROADCASTING STATIONS –

TUNING AND INT.-SIG.: Music Box playing "Waltzing Matilda" for five minutes preceding transmissions. – Prgr. commence with the Melbourne Post Office Clock chimes and the laugh of the Kookaburra. – **V.** Listener's reports are welcomed and should cover at least 15 min. prgr.-reception data. All correct reports are confirmed by QSL-card. – **PUB.:** A 36-page prgr.-booklet is available free upon application to "R. Australia".

Associated in a body called: **The Australian Federation of Commercial Broadcasting Stations: Adr.:** 47 York Street, Sydney. – **L.P.:** Exec. Officer: A. S. Cowan. Gen. Secr.: M. Baker. – **The Australian Broadcasting Control Board** is a Go. Authority responsible for the planning of the broadcasting sce.'s, ensuring that technical equipment and prgr. sce.'s are of adequate standards and determining power, frequency and periods of operation of stations.

ADDR.: 497 Collins Str, Melbourne, C.1. **Cable:** Conboard, Melbourne. **L.P.:** Chairman: R. G. Osborne. Members: R. B. Mair; R. A. Yeo; J. R. Darling (Part-time); R. M. White (Part-time); Secr.: J. O'Kelly. Dir. Tec.: D. McDonald. Dir. Prgr.: D. A. Jose.

2CH is controlled by the New South Wales Council of Churches; 2SM by the Roman Catholic Church; 5KA and 5AU by the Methodist Church.

Abbreviations: Amalg. = Amalgamated. Ass. = Associated. Me. = Melbourne. B. Casters = Broadcasters. Transc. = Transcontinental.

NEW SOUTH WALES Call letter: 2...

Call	kc/s	kW	D.Prgr.	Stations
BH	660	0.2	20.30–13.00	**R. Silver City,** Broken Hill
KA	780	2/1	20.30–12.30	**Transc. Broadc. Corp.,** Katoomba
GB	870	5	19.30–13.15	**Broadc. St. 2GB Pty.,** Sydney
LM	900	2/1	20.00–12.30	**Richmond River Broadc.** Lismore
XL	920	1	20.00–13.00	**Cooma B.Casters**
UE	950	5	24 hours	**R. 2UE,** Sydney
KM	980	2/1	20.30–12.30	**R. Kempsey**
GZ	990	2	20.00–13.30	**Country Broadc. Sce.,** Orange
KY	1020	5	19.45–14.00	**2KY Broadc. St.,** Sydney
CA	1050	2	20.00–13.00	**Canberra B. Casters**
RG	1070	2/1	20.30–12.30	**2RG B.Casters,** Griffith
MO	1080	1	20.00–12.30	**2MO Gunnedah.**
[1]UW	1110	5	24 hours	**Commonwealth Broadc. Corp.,** Sydney
AD	1130	2/1	20.00–12.30	**New England B. Casters,** Armidale
HD	1140	2	19.30–14.00	**Airsales Broadc. Co.,** Newcastle
WG	1150	2	20.30–13.00	**Riverina Broadc. Co.,** Wagga
CH	1170	5	19.30–14.00	**Amalg. Wireless,** Sydney
NZ	1190	2	20.00–13.00	**Northern B. Casters,** Inverell.
GF	1210	2/1	20.00–13.00	**Grafton Broadc. Co.**
DU	1250	2	19.45–13.30	**Western B. Casters,** Dubbo
[2]SM	1270	5	19.30–13.00	**Broadc. St. 2SM,** Sydney
TM	1300	2	20.00–13.30	**Tamworth R. Development Co.**
LF	1340	2	20.00–13.00	**Young B. Casters,** Young
NX	1360	2	19.30–13.00	**Hunter B.Casters,** Newcastle
LT	1370	0.5	20.00–12.30	**Lithgow B.C.**
GN	1380	2	20.00–13.00	**Goulbourn Broadc. Co.**
PK	1400	2	20.30–13.00	**Parkes Broadc. Co.**
KO	1410	2	24 hours	**R.2KO,** Newcastle
WL	1430	2	19.30–13.30	**Wollongong Broadc.**
MW	1440	2/1	20.00–12.30	**Tweed R. & Broadc. Co.,** Murwillumbah
MG	1450	0.5	20.30–12.30	**Mudgee Broadc. Co.**
NM	1460	0.5	19.30–13.00	as 2NX – 1360 kc/s
BE	1480	1	21.00–12.00	**Station 2BE,** Bega
AY	1490	2	20.00–13.30	**Amalg. Wireless,** Albury
BS	1500	2	20.00–13.30	**Bathurst B.Casters.**
QN	1520	2	20.30–12.30	**Southern Riverina B. Casters,** Deniliquin

VM	1530	2/0.5	20.00–12.30	**Moree Broadc. & Development Co.,**
RE	1560	2/0.5	20.00–12.30	**Manning Valley Broadc.,** Taree.

VICTORIA Call letter 3...

UL	880	2/1	19.30–13.00	**Ass. Broadc. Sce.,** Warragul.
UZ	930	5	19.30–14.00	**Nilsen's Broadc. Sce.,** Melbourne
BO	960	1	20.00–14.00	**Amalg. Wireless,** Bendigo
HA	1000	2	20.00–13.30	**We. Province R.,** Hamilton
DB	1030	5	19.45–15.00	**Herald Broadc. St.,** Melbourne
LK	1090	2	–	
CS	1130	1	20.00–12.30	**Colac Broadc. Co.**
KZ	1180	5	20.00–13.30	**3KZ Broadc. Co.,** Melbourne
YB	1210	1	20.00–13.00	**Ass. Broadc. Sce.,** Warrnambool
TR	1240	2	19.00–14.00	**Broadc. Entertainm.,** Sale
SR	1260	2	19.30–13.00	**Ass. Broadc. Sce.,** Shepparton
AW	1280	5	19.00–13.30	**3AW Broadc. Co.,** Melbourne
BA	1320	1	20.00–14.00	**Ballarat B. Casters**
SH	1330	2	20.00–13.00	**Central Murray B. Casters,** Swanhill
GL	1350	1	20.00–13.00	**Geelong Broadcasting**
XY	1420	5	24 hours	**Efftee B.Casters,** Melbourne
CV	1440	1	20.00–13.00	**C. Victorian B. Casters,** Maryborough
MA	1470	2	20.30–12.30	**Sunraysia B. Casters,** Mildura
AK	1500	0.5	20.00–08.00	**Melbourne B. Casters**
NE	1600	2	20.00–13.00	**Wangaratta Broadc. Co.**

QUEENSLAND Call letter 4...

KQ	690	2/1	19.30–13.30	**Broadc. St. 4KQ,** Brisbane
TO	780	2/1	19.30–13.30	**Amalg. Wireless,** Townsville
GR	860	2	19.30–13.00	**Gold R. Sce.,** Toowoomba
WK	880	2/1	20.00–12.30	**Warwick Broadc. Co.**
VL	920	1	20.30–12.30	**Charleville Broadc. Co.**
AY	960	2/1	20.00–12.30	**Ayr B. Casters,** Ayr
RO	1000	2	20.00–12.30	**Rockhampton Broadc. Co.**
CA	1010	1	20.00–13.00	**Amalg. Wireless,** Cairns
IP	1010	1	20.00–12.30	**Ipswich Broadc. Co.**
SB	1060	2	20.00–12.30	**South Burnett Broadc. Co.,** Kingaroy
LG	1100	2	20.00–03.30	**C. Queensland Broadc. Corp.,**
			08.00–12.00	Longreach
BC	1120	2	24 hours	**Commonwealth Broadc. Co.** Brisbane
MB	1160	2	20.00–12.30	**Maryborough Broadc. Co.**
AK	1220	2	19.00–13.00	**Brisbane B. Casters**
BK	1290	2		
BU	1330	2	20.00–12.30	**Bundaberg B. Basters**
GY	1350	2/0.5	20.00–12.00	**The Gympie Broadc. Co.**
MK	1380	2	20.00–12.30	**Mackay Broadc. Sce.**
[3]BH	1390	2	19.00–13.00	**B. Casters (Aust),** Brisbane
ZR	1480	2/1	20.30–12.30	**Maranoa Broadc. Co.,** Roma

SOUTH AUSTRALIA Call letter 5...

[4]RM	800	2	20.15–13.30	**5KA Broadc. Co., Adelaide**
DN	970	2	20.00–13.45	**Hume B.Casters,** Adelaide
[5]PI	1040	2	20.00–13.45	**TheAdvertiserBroadc.Network,** Adelaide
[4]KA	1200	2	24 hours	as 5RM
[5]AD	1310	2	20.00–13.45	as 5PI
[5]SE	1370	2	20.15–12.45	as 5PI
[4]AU	1450	2	20.15–13.30	as 5RM
[5]MU	1460	0.5	20.15–12.45	as 5PI

WESTERN AUSTRALIA Call letter 6...

VA	780	2	22.30–05.00	**Albany Broadcasters**
			09.30–14.00	
KG	860	2	23.00–05.00	**Whitfords**
			09.00–14.30	**Broadc. Network,** Perth
PR	880	2	21.30–15.00	**Nicholsons Broadc. Sce.,** Perth
BY	900	2	22.00–14.30	**W.A.B.Casters,** Perth
NA	920	2	22.00–15.00	**Westland Broadc. Co.,**
TZ	960	2	22.00–14.15	as 6PR
AM	980	2	22.30–14.30	as 6KG
PM	1000	2	22.00–15.00	as 6KG
GE	1010	2	23.00–05.30, 09.30–14.30	as 6 KG
WB	1070	2	22.00–06.00, 09.00–14.30	as 6BY
IX	1080	2	21.45–15.00	as 6BY
MD	1100	2	22.00–06.15, 09.00–14.30	as 6BY
CI	1130	2	22.00–06.30, 09.00–14.15	as 6PR
KY	1320	2	21.30–15.00	as 6NA

TASMANIA Call letter 7...

SD	540	0.5	21.00–03.00	**North East Tasmania R.**
			06.30–12.15	**B.Casters,** Scottsdale
BU	560	0.5	20.30–12.30	**Burnie Broadc. Sce.**
QT	720	0.5	21.00–03.00	**West Coast**
			06.00–12.30	**B.Casters,** Queenstown
[6]HO	860	2	20.00–13.00	**Comm. B.Casters,** Hobart
AD	900	0.5	21.00–13.00	**N.Tasmania B.Casters,** Devonport
EX	1010	2	20.30–13.00	**7EX Pty.,** Launceston
HT	1080	2	20.00–13.00	**Metropolitan B. Casters,** Hobart
LA	1100	2	20.30–13.00	**Findlay&Wills Broadcasters,** Launcesto

[1]) **ADDR.:** 365 Kent St., Sydney.
[2]) **ADDR.:** 257 Clarence St., Sydney.
[3]) **ADDR.:** 43 Adelaide, St. Brisbane. – **L.P.:** Man.Dir.: V. F. Mitchell. Dir.Tec.: A. R. Judge. – **Prgr.:** Mo.-Fri. 19.00–13.00 (Sat. 14.00). Sun. 20.00–13.00. – **V.** by QSL-card.
[4]) **ADDR.:** 43 Franklin St., Adelaide. **Cable:** "FIVEKA". – **L.P.:** Dir.Gen.: A. E. Vogt. – **ANN.:** "This is the voice of So. Australia, Stations 5KA–5AU and 5RM". – **V.** by QSL-card. R.p.
[5]) **ADDR.:** Waymouth St., Adelaide. **Cable:** "FIVEAD". – **Prgr.:** 5AD-5PI W. 20.00–13.45 (Sat. 14.30). Sun. 22.15–13.15. – 5MU-5SE W. 20.15–13.45 (Sat. 14.30). Sun. 22.15–13.15. **ANN.:** "This is the Advertiser Broadcasting Network 5AD Adelaide 5PI Central, 5MU Eastern and 5SE So. Eastern So. Australia". **V.** by QSL-card.
[6]) **ADDR.:** G. P. O. Box 671, Hobart. **Cable:** "Sevenho". – **L.P.:** Dir. Tec.: W. Morrison. – **Prgr.:** Sun.-Fri.: 20.00–13.00 (Sat. 14.00). – **ANN.:** "Radio Hobart-7HO-Station of the Stars, Tasmanian key station of the Macquarie Broadcasting Service". – **V.** by letter especially when overseas listeners.

★ CANTON ISLAND ★

L.T.: GMT÷11 h. – **L.:** English.
RADIO STATION KIBS (The Hermit Crab Network)
(Non-profit, volunteerly operated, U.S. Govt. owned equipment).
ADDR.: C.A.A. Canton Island, Phoenix Group, S.Pacific; U.S.P.O. 06–50000. – **L.P.:** Dir. Gen.: W. Johnson. Dir. Tec.: J. Ronald.
HOME SCE.: KIBS 1500 kc/s 200 m 0.25 kW: Tues. to Sun.: 01.00–11.00. Sun. 21.00–Mo. 11.00. All prgrs. recorded exc. Sun. two local religious prgrs. and **"Saturday Nite Jamboree":** Sun. 06.00–08.00.
ANN.: "Radio Station KIBS, The Hermit Crab Network, 1500 on your dial; Canton Island". – **V.** by letter. R.p. appreciated.

★ COOK ISLANDS (N.Z. Territory) ★

L.T.: GMT÷10½ h. – **L.:** English, Cook Isl. Maori. – **Rcvrs.:** 400.
RADIO RAROTONGA (Go.)
ADDR.: Further Education Radio Service, Rarotonga. – **L.P.:** Dir. Prgr.: P. F. Henderson. Dir. Tec.: W. Scarborough.
HOME SCE.: ZK1ZA 4965 kc/s 60.42 m 0.35 kW: Thurs. 04.30–05.30 (N.: 05.10).
ANN.: "This is ZK1ZA Radio Rarotonga". – **INT.-SIG.:** Cook Islands Drum Beats. – **V.** by QSL-card.

★ FIJI (British) ★

L.T.: GMT+12 h. – **L.:** English, Fijian, Hindustani. – **Rcvrs.:** 18000.
FIJI BROADCASTING COMMISSION (Independent Statutory Body, 50% comm., 50% cultural)
ADDR.: Broadcasting House, P.O. Box 334, Suva. – **Cable:** "Broadcom". – **L.P.:** Chairman: R. L. Munro, LLB. Mgr.: J. S. W. Stannage. Dir. Prgr.: G. H. King. Dir. Tec.: T. Agar.
HOME SCE.: W. 18.30–10.30 (Sat. 11.00). Sun. 18.30–10.00.
VRH2 Suva 840 kc/s 357 m 0.5 kW – VRH3 Lautoka 890 kc/s 337.1 m 2.5 kW – VRH Suva 930 kc/s 322 m 2 kW – VRH4 Suva 3980 kc/s 75.38 m 0.5 kW (R. Fiji).
Simultaneously tr. in **English, Fijian, Hindustani.** – **English: N.:** D. 18.45*, 19.00 (BBC), 19.45, 20.00 (BBC), 21.15 (Sun. BBC), 24.00 (Sun. ABC), 01.15 (NZBS), 01.30*, 07.00 (BBC)*. – **Wrp.:** After N*, 00.30, 09.15 (Sun. 09.00).
ANN.: "This is the Fiji Broadc. Commission". – **INT.-SIG.:** Beat of Fijian Lali (Log Drum). – **V.** by QSL-card, but not sought.

★ GILBERT and ELLICE ISLANDS ★ (British Colony)

L.T.: GMT+12 h. – **L.:** Gilbertese, Ellice, English. – **Rcvrs.:** 200.
RADIO TARAWA (Go.)
ADDR.: Information Office, Tarawa, Gilbert and Ellice Islands Colony (via Melbourne, Australia). – **Cable:** Information, Tarawa.
L.P.: Dir.: R. K. Uatioa. Dir. Tec.: C. W. Adams.
HOME SCE.: Sun. 04.30–05.15*. Fri. 07.30–09.00**.
VTW 844 kc/s 355 m 0.05 kW – VSZ10 6050 kc/s 49.59 m 0.5 kW
* Gilbertese & Ellice. ** English.
ANN.: E.: "This is station VTW, Tarawa". – **V.** by letter.

★ HAWAII (U. S. Territory) ★

L.T.: GMT÷10 h. – **L.:** English, Japanese, Filipino, Chinese. – **Rcvrs.:** 450.000.
VOICE OF AMERICA RADIO STATION IN HAWAII
ADDR.: Voice of America, Washington 25, D.C., U.S.A.
STATIONS: Short Wave: Honolulu 100 kW: 09.00–16.30.
9650 kc/s 31.09 m – 11775 kc/s 25.45 m – 15150 kc/s 19.80 m
D. PRGR.: Short Wave: See U.S.A.
ANN.: "This is the Voice of America Transmitter, Honolulu".
INT.-SIG.: Choir of brass playing a 10 note version of "Columbia, the Gem of the Ocean". See U.S.A.
V. by QSL-card.

PRIVATE STATIONS (Comm.)

Call	kc/s	kW	network	Call	kc/s	kW	network
1) KMVI	550	1	KGU-NBS	9) KAHU	920	1	Indep.
2) KGMB	590	5	CBS	2) KHBC	970	1	CBS
3) KPOA	630	5	MBS	10) KHVH	1040	5	Indep.
4) KULA	690	10	Indep.	11) KIPA	1110	1	KGU-NBS
5) KGU	760	10	NBS	12) KANI	1240	1	Indep.
6) KIKI	830	0.25	Indep.	13) KHON	1380	5	Indep.
7) KILA	850	1	MBS	14) KTOH	1490	0.25	KGU-NBS
8) KAIM	870	1	Indep.				
15) KUOH-FM	90.5 mc/s	0.01 kW	Indep.				
8) KAIM-FM	95.5	– 1	– Indep.				

1) **Maui Publishing Co.**, P.O. Box 374, Wailuku, Maui. – **L.P.**: Pres.: J. Walther Cameron. Vicepres., Gen. Mgr.: Ezra Crane. – **D. Prgr.**: see 5. – **V.** by letter or QSL-card.
2) **Hawaiian Broadc. System**, 1534 Kapiolani Blvd., Honolulu. – **L.P.**: Pres., Gen. Mgr.: J. Howard Worrall. St. Mgr.: M. Wright. Chief Eng.: D. Hunter. – **D. Prgr.**: 24 h. **English** exc. **Japanese**: Mo.–Fri. 15.00–16.30. Sat. 15.00–19.00. Sun. 15.30–20.00. **Filipino**: Sun. 20.00–20.30.
3) **R. Hawaii**, 375 Kamoku Str., Honolulu. – **L.P.**: Gen. Mgr.: F. Hollinger. Dir. Tec.: R. H. Lang. – **D. Prgr.**: 15.00–10.00. – **English** exc. **Japanese**: Mo.–Fri. 23.30–02.00. Sat. 15.15–22.00. Sun. 16.30–20.45. **Filipino**: Mo.–Fri. 15.15–15 30. Sat. 02.00–03.00. Sun. 15.30–16.30. – **V.** by letter or QSL-card. – **F.PL.**: 10 kW.
4) **Burnett Broadc. Co.**, P.O. Box 1479, Honolulu. – **L.P.**: Pres., Gen. Mgr.: J. Burnett. Dir. Tec.: R. T. Miyahira. Dir. Prgr.: T. Scott. – **D. Prgr.**: **English**: 15.30–10.00.
5) **Advertiser Publishing Co.**, Kapiolani Blvd., South Str., Honolulu. – **L.P.**: Pres.: L. P. Thurston. Dir. Tec.: T. Shigetani. – **D. Prgr.**: 24 h. – **English** exc. **Japanese**: Mo.–Fri.: 14.30–15.00. Sat. 15.00–05.00. Sun. 16.30–18.30. **Filipino**: W. 15.00–15.30. Sun. 15.00–16.30.
6) **Kiki Ltd.**, 320 Ward St., Honolulu. – **L.P.**: Pres.: A. J. Rossi. Dir. Tec.: R. V. Howard. – **D. Prgr.**: 24 h. – **English** exc. **Japanese**: Mo.–Fri. 18.00–20.00. Sun. 21.00–23.00. **Okinawan**: Sat. 19.00–20.00. **Filipino**: Wed. 15.00–17.00. Fri. 15.00–16.00. Sat. 15.00–19.00. Sun. 15.00–21.00.
7) **Island Broadc. Co.**, P.O. Box 1497, Naniloa Hotel, Hilo. **D.Prgr.**: 15.00–10.00. – **D. Prgr.**: As 3.
8) **Christian Broadc. Co.**, 1148–12th Avenue, Honolulu. – **L.P.**: Gen. Mgr.: C. Keur. Dir. Tec.: E. Fallert. – **D. Prgr.**: 15.30–09.00. – **English** exc. **Japanese**: 03.30–05.30. Sun. 05.00–05.30. **Chinese**: Mo. 05.30–06.15.
9) **Rural Broadc. Co.**, P.O. Box 1007, Waipahu, Oahu. – **L.P.**: Gen. Mgr.: H. E. Chu. Dir. Tec.: R. Pearson. **D.** 15.00–09.30. – **English** exc. **Japanese**: W.: 16.00–18.00, 05.00–08.00. Sun. 19.00–20.30, 05.00–09.00. **Filipino**: 15.00–16.00. Sat. 04.00–05.00. Sun.: 16.00–19.00, 03.00–05.00. **Chinese**: Sat. 03.00–04.00. Sun. 20.30–21.30.
10) **Kaiser-Hawaiian Village R.**, Hawaiian Village Hotel, Honolulu. – **L.P.**: Gen. Mgr.: R. Block. Dir. Tec.: E. Lindeman. – **D. Prgr.**: 24 h. **English**: **N.**, **Wrp.**: On the h. and half h.
11) **Big Island Broadc. Co.**, 84 Momo St., Hilo. – **L.P.**: Pres. W. Gonsalves. – **D. Prgr.**: As 5.
12) **Windward Broadc. Co.**, P.O. Box 697, Kaneohe, Oahu. – **L.P.**: Mgr.: J. Canright. Dir. Tec.: J. Ellington. – **D. Prgr.**: 15.00–10.00. **English** exc. **Japanese**: Mo.–Fri. 20.00–22.00. **Filipino**: Sun. 01.00–02.00. **Chinese**: Sun. 05.00–07.00.
13) **Diamond Head Broadcasters**, 1701 Ala Wai Blvd., Honolulu. – **L.P.**: Gen. Mgr.: R. H. Lee. – **D. Prgr.**: 24 h. **English**.
14) **Garden Island Publishing Co.**, P.O. Box 1748, Lihue, Kauai. – **L.P.**: Gen. Mgr.: J. Fern. St. Mgr.: J. Sebastian. – **D. Prgr.**: As 5.
15) **University of Hawaii**, Honolulu. – **L.P.**: Dir.: L. Steed.

★ JOHNSTON ISLAND (U.S. Territory) ★

L.T.: GMT÷11 h. – **L.**: English.
ARMED FORCES RADIO TELEVISION SCE.: see U.S.A.

★ MARIANAS ISLANDS (U.S. Territory) ★

L.T.: GMT+10 h. – **L.**: English, Tagalog, Chamorro. – **Rcvrs.**: 25000.
RADIO GUAM (Pr. Comm.)
ADDR.: P.O. Box 68, Agana, Guam. – **Cable**: "Kuam". – **L.P.**: Mgr.: H. R. Maguire. Dir. Tec.: S. I. Ridder, J. L. Long.
HOME SCE.: KUAM 610 kc/s 1 kW. – **English**: 20.00–06.00, 07.15–14.00 (Sat. 15.00). – **ANN.**: "Kuam Agana, Guam". – **V.** by QSL-card.

★ MIDWAY ISLAND (U. S. Territory) ★

L.T.: GMT÷11 h. – **L.**: English.
ARMED FORCES RADIO TELEVISION SCE.: See U.S.A.

★ MARSHALL ISLANDS (U.S. Trust Terr.) ★

L.T.: GMT+12 h. – **L.**: English.
Armed Forces Radio TV-Service: Eniwetok and Kwajalein: see USA.

★ NEW CALEDONIA (French) ★

L.T.: GMT+11 h. – **L.**: French. – **Rcvrs.**: 5.000.
RADIO NOUMEA (Go.)
ADDR.: B.P. 327, Noumea. – **L.P.**: Dir. R. le Leizour. Dir. Adm.: Mlle M. Charbonneaux.
HOME SERVICE:
1400 kc/s 214 m 1 kW: W.: 00.00–02.00, 07.00–10.30, 19.00–20.00.
6035 kc/s 49.71m 4kW: Sun.: 21.00–02.00, 07.00–10.30.
N.: 00.55 (local), 01.00, 08.00. – **ANN.**: "Ici Nouméa, Radiodiffusion de la France d'Outre-mer«. – **V.** by QSL-card.

★ NEW GUINEA (Netherlands) ★

L.T.: GMT+9½ h. – **L.**: Dutch, Malayan.
RADIO OMROEP NIEUW GUINEA (Go.)
ADDR.: P.O. Box 505, Biak. – **L.P.**: Mgr.: Vacancy. Dir. Prgr., Adm.: D. van Os. Dir. Tec.: W. de Vries.
HOME SCE. in Dutch, Malayan. 5 kW
5045 kc/s 59.46 m: 09.00–12.30.
7190 – 41.72 –: Mo.-Fri.: 00.30–01.30. Sat.: 03.00–05.00.
Sun.: 23.30–04.30.
N.: **W. Dutch**: 10.30 on 5045 kc/s. **Sun.**: 03.30 on 7190 kc/s. **Malayan**: W.: 09.00 on 5045 kc/s. – **Request prgr.**: **Dutch**: Tues. 10.45–11.45. **ANN.**: "Hier is Biak, Radio Omroep Nieuw-Guinea." – **INT.-SIG.**: "Wij leven vrij, wij leven blij": sol do sol mi do mi sol sol sol. – **V.** by QSL-card. If possible return postage.
RADIO SORONG (Pr.)
ADDR.: Dutch New Guinea Petroleum Company, Sorong. – **HOME SCE.**: 3395 kc/s 88.37 m 0.5 kW: W. exc. Wed., Sat.: 09.30–12.00. Sun.: 01.00–03.30, 09.30–12.00. – **ANN.**: "Hier R. Sorong". – **INT.-SIG.**: "Swedish Rhapsody." – **V.** by letter.

★ NEW GUINEA (Austral. Terr.) ★

R. Port Moresby (Papua): see Australian Broadcasting Commission.

★ NEW ZEALAND ★

L.T.: GMT+12 h. – **L.**: English. – **Rcvrs.**: 621.000 approx.
NEW ZEALAND BROADCASTING SERVICE (Go.)
ADDR.: The Director, New Zealand Broadcasting Service, P.O. Box 98, Wellington. – **Cable**: "Broadserv." – **L.P.**: Dir.: William Yates, C.B.E. Dir. Tec.: W. L. Harrison.
HOME SERVICE in English:

		kc/s	m	kW	h. of tr.
Wellington	2YA	570	526	60	17.00–11.20
Wellington	2YC	660	455	60	05.00–11.00
Christchurch	3YA	690	434	10	18.00–11.20
Invercargill	4YZ	720	416	5	19.00–11.20
Auckland	1YA	760	395	10	18.00–11.20
Dunedin	4YA	780	384	10	18.00–11.20
Rotorua	1YZ	800	375	10	19.00–10.30
Invercargill	4ZA	820	366	10	18.00–10.30
Masterton	2XB	840	357	2	06.00–10.30
Napier	2YZ	860	349	5	19.00–10.30
Auckland	1YC	880	341	10	06.00–11.00
Dunedin	4YC	900	333	10	05.00–11.00
Greymouth	3YZ	920	326	10	19.00–10.30
Palmerston Nth	2ZA	940	319	2	18.00–10.30
Christchurch	3YC	960	312	10	05.00–11.00
Whangarei	1XN	970	309	2	18.00–10.30
Wellington	2ZB	980	306	10	18.00–12.00
Gisborne	2XG	1010	297	2	18.00–10.30
Dunedin	4ZB	1040	288	10	18.00–12.00
Auckland	1ZB	1070	280	10	18.00–12.00
Christchurch	3ZB	1100	273	10	18.00–12.00
Wellington	2YD	1130	265	2	07.00–10.00
Timaru	3XC	1160	258	2	19.00–10.30
Gisborne	2XM	1180	254	0.09	21.15–10.00
Wanganui	2XA	1200	250	2	18.00–10.30
Auckland	1YD	1250	240	2	05.00–10.00
Hawkes Bay	2ZC	1280	234	2	18.00–10.30
Hamilton	1XH	1310	229	2	18.00–10.30
Nelson	2XN	1340	224	2	18.00–10.30
New Plymouth	2XP	1370	219	2	18.00–10.30
Wellington	2YX	1400	214	1	07.30–10.30
Dunedin	4XD	1430	210	0.06	06.00–10.30

N.: **D.**: 18.00, 19.00, 20.00 (BBC), 09.00. – **Wrp.**: **English**: 08.30, 19.15, 21.00, 00.30. – **Religious Prgr.**: **W.**: 22.10. **Sun.**: 23.00. – **Time Sig.**: 18.00, 19.00, 20.00, 23.00, 00.30, 04.00, 06.30, 07.00, 10.00, 11.00.
FOREIGN SERVICE: Radio New Zealand 7.5 kW.

ADDR.: The Director, Radio New Zealand, P.O. Box 2396, Wellington. – Cable: "Natbroadcast." – L.P.: St. Mgr.: A. L. Curry. Prgr. Officer: K. S. Avery.

ZL20	6020	49.83	ZL8	9620	31.19	ZL5	17770	16.88
ZL7	6080	49.34	ZL3	11780	25.47	ZL14	17820	16.84
ZL11	6130	48.94	ZL9	11810	25.40	ZL15	21480	13.97
ZL12	7220	41.55	ZL19	11830	25.36	ZL16	21580	13.90
ZL13	7290	41.15	ZL10	15220	19.71	ZL6	25800	11.63
ZL18	9520	31.51	ZL4	15280	19.63	ZL17	26000	11.54
ZL2	9540	31.45						

Two frequencies are used simultaneously, and as the prgr. sce. is intended primarily for Australia and the Pacific Islands, the present aerials are beamed in those two directions.

To Australia:
D. 20.00–05.45 Home Sce. prgr.
D.* 09.00–11.45 Special prgr. for Australian listeners.
To Pacific Islands:
D. 17.00–05.45 Home Sce. prgr.
D.* 06.00–08.45 Special prgr. for Pacific Islands listeners.
*) On 2 freq. simultaneously.
N.Z. N. Mo.–Fri. 00.33, D.: 07.30, 08.40, 10.30. – **Religious:** W. 22.10. Sun. 23.00. – **National Music:** Thurs. 08.00, 11.15. Sun. 06.45, 09.45. – **DX Programmes:** 1st Wed. in month: 06.30, 11.00. – **Mailbag:** Fri. 07.00, 11.00. – **Prgr. Previews:** Mon.–Fri. 00.50. D. 06.10, 07.40, 08.40, 09.00, 10.40, 11.40.
ANN.: This is New Zealand Calling. – **INT.-SIG.:** Call of the bellbird (at 5 second intervals). – **V.** by QSL-card posted by sea mail. – **PUB.:** "The N.Z. Listener" (Home Sce. only) sub. 30 sh. (N.Z.) yearly. R.N.Z. Prgr. sched. (Free to overseas listeners on request).

★ NORFOLK ISLAND (Austral. Terr.) ★

L.T.: GMT+11½ h. – L.: English.
NORFOLK ISLAND BROADCASTING SERVICE (Go.)
ADDR.: Civil Aviation, Norfolk Island. 1500 kc/s 200 m 0.07 kW.

★ SAMOA ★

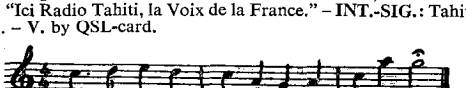
L.T.: GMT÷11 h. – L.: English, Samoan. – Rcvrs.: 4000.
WESTERN SAMOA (N.Z. Trust Territory)
ADDR.: Broadcasting Department, Apia Western Samoa. – Cable: "Voxpac". – L.P.: Dir.: C. H. Turner. Dir. Prgr.: F. A. Brunt. Dir. Tec. J. K. Brown.
HOME SCE.: 2 AP Apia: 1420 kc/s 221.3 m 2 kW.
English: 05.30–07.00. Samoan: 07.00–09.00. – V. by QSL-card.
EASTERN SAMOA (U.S. Territory)
RADIOSTATION WVUV
ADDR.: Office of Information and Adult Education, Pago Pago.
HOME SCE.: English, Samoan: WVUV 1120 kc/s 267.8 m 0.25 kW. Mo. to Fri.: 20.00–22.00, 07.00–10.00. Fri. 20.00–Sat. 07.00. From Sat. 23.00. – Sun. 03.00. – ANN.: E.: "This is Station WVUV, Pago Pago, American Samoa." – **INT.-SIG.:** St. identification, time break, and theme songs every 15 mins. from Mo. to Fri. – **V.** by letter. – **PUB.:** Weekly information paper and a daily news sheet in English.

★ SOLOMON ISLANDS (British) ★

L.T.: GMT+10 h. – L.: English, Vernaculars. – Rcvrs.: 500.
SOLOMON ISLANDS BROADCASTING SERVICE (Go.)
ADDR.: P.O. Box 115, Honiara. – Cable: Broadcasts. – L.P.: Broadc. Officer: R. F. Calvert. Broadc. Eng.: R. C. Evens. Inf. Officer: Miss K. S. Poole.
HOME SCE.: Mo.-Fri.: 06.30–07.30, 09.00–11.15. Sat., Sun.: 09.00–11.15.
VQO 1030 kc/s 291 m 0.66 kW – VQO2 5960 kc/s 50.34 m 5 kW d.
English: 09.00–11.15. N.: D. 09.10. **Pidgin English:** 06.30–07.30. N.: Mo.-Fri. 06.45.
ANN.: "This is the Solomon Islands Broadcasting Sce. VQO and s.w. tr. VQO2." – **V.** by QSL-card. Report must contain sufficient detail to establish authenticity.

★ TAHITI (French) ★

L.T.: GMT÷10 h. – L.: French, Tahitian, Maori, English. – Rcvrs.: 10.000.
RADIO TAHITI (Go.)
ADDR.: Rue Dumont d'Urville 410, Papeete. – L.P.: Dir. Information: M. Baudoin. Asst. Dir.: M. Espinasse.
HOME SCE.: 6135 kc/s 48.90 m 4 kW – 11825 kc/s 25.37 m 4 kW. 22.00 (Sun. 20.00)–23.00 on 11825 kc/s, 03.00–07.45 (Sat. 03.30–08.00) on 6135 kc/s. – **French:** 05.00–07.30, 22.15–23.00. N.: 06.00. **Mbg.:** 05.30. – **English:** 07.30–07.45. – **Tahitian:** 03.45–05.00, 22.00–22.15.
ANN.: "Ici Radio Tahiti, la Voix de la France." – **INT.-SIG.:** Tahitian Drums. – **V.** by QSL-card.



NORTH AMERICA
incl. Mexico

★ CANADA ★

L.T.: See table: World Time. – L.: English, French. – Rcvrs.: 6.700.000 households, 1.260.000 motor cars. – There are 22 publicly-owned CBC stations with AM and five of these also have FM outlets. There are 178 privately-owned AM stations and 28 of these also have FM outlets. There are two privately-owned stations with FM only.
CANADIAN BROADCASTING CORPORATION INTERNATIONAL SERVICE (Publicly owned)
ADDR.: Canadian Broadcasting Corporation, International Service, P.O. Box 6000, Montreal, Canada. Cable: "Intrad".
L.P.: Dir.: C. R. Delafield. Supervisor of Sections: A. L. Pidgeon. Supervisor of Eng. Sce.: J. M. Laporte. Supervisor of Inf. Sce.: H. Shane.
STATIONS: All international s.w. broadcasts from Canada are directed by CBC International Service, which is owned by the people of Canada. All prgrs. are produced in Montreal and beamed from two 50 kW transmitters at Sackville, New Brunswick, near the Atlantic Coast. The CBC International Service was inaugurated Feb. 25, 1945.

Call	kc/s	m	Call	kc/s	m	Call	kc/s	m
CKNA	5970	50.25	CHFO	9740	30.80	CKBR	15275	19.64
CHAY	5990	50.08	CKXA	11705	25.63	CKCS	15320	19.58
CKRZ	6060	49.50	CHOL	11720	25.60	CHSB	17710	16.94
CKOB	6090	49.26	CKRA	11760	25.51	CHRX	17735	16.92
CHAC	6160	48.70	CKEX	11900	25.21	CKNC	17820	16.84
CKLP	9585	31.30	CKNK	11945	25.12	CHYS	17865	16.80
CHLS	9610	31.22	CKUS	15105	19.86	CKRP	21600	13.89
CKLO	9630	31.15	CKCX	15190	19.75	CHLA	21710	13.82
CHLR	9710	30.90	CKSR	15255	19.67			

EUROPEAN SERVICE:

	Nov.–Febr.	March–April Sept.–Oct.	May–Aug.
11.30–14.00	13–16 m.b.	13–16 m.b.	13–16 m.b.
14.00–17.00	19–16 –	19–16 –	19–16 –
17.00–19.00	25–19–16 –	19–16 –	19–16 –
19.00–21.30	31–25 –	25–19–16 –	19–16 –

Daily Prgr.:
11.25–11.45: Czech (Mon. to Fri. only)
11.25–11.50: – (Sat. & Sun. only)
11.45–12.00: Program announcements (Mo. to Fri. only)
12.00–12.35: For Canadian Forces in Europe (Mo. to Fri. only)
12.40–13.00: Polish (Sat. & Sun. only)
13.00–14.00: For Canadian Forces in Europe (Sat. only)
13.00–14.00: Program for Europe (Sun. only)
13.10–13.30: Polish (Mo. to Fri. only)
13.30–14.00: For Canadian Forces in Europe (Mo. to Fri. only)
14.00–14.15: Announcements, Program Preview
14.15–14.45: Russian
14.45–15.15: Ukrainian
15.15–16.00: Prgrs. for Europe
16.00–16.30: Polish
16.30–17.00: Czech
17.00–17.30: German
17.30–18.00: Russian } Mo. to Fri.
18.00–18.15: Polish } Mo. to Fri.
18.15–18.30: Slovak } Mo. to Fri.
18.30–18.45: Hungarian } Mo. to Fri.
18.45–19.00: N. in English for ships at sea } Mo. to Fri.
19.00–19.30: Czech } Mo.–Fri.
19.30–20.00: German } Mo.–Fri.
20.00–20.30: French
20.30–21.00: English
21.00–21.15: Ukrainian
21.15–21.30: Russian

Mo.–Fri.: 17.30–18.00: Swedish; 18.00–18.30: Norwegian; 18.30–19.00: Danish; 19.00–19.30: Dutch; 19.30–20.00: Italian } Sat., Sun. only

CARIBBEAN SERVICE:

	Nov.–Feb.	March–April Sept.–Oct.	May–Aug.
English:			
21.55–22.35	16–19–25 m.b.	16–19 m.b.	16–19 m.b.

LATIN AMERICAN SERVICE:

22.55–00.35:	25–19 m.b.	25–19 m.b.	25–19 m.b.

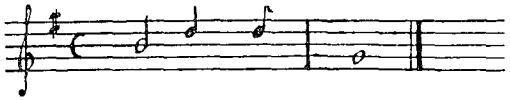
D. Prgrs.: 22.55–23.45 **Portuguese** – 23.45–00.35 **Spanish.**

AMERICAN AND ANTILLES SERVICE:

	Nov.–Febr.	March–April Sept.–Oct.	May–Aug.
00.55–01.45:	English 31–19 m.b.	25–19 m.b.	25–19 m.b.
01.45–02.20:	French 31–19 –	25–19 –	25–19 –

NORTHERN CANADA SERVICE:
02.55–03.35: **English** in 31, 25 or 19 m.b.
03.30–04.20 **English** (Northern Messenger) Mo. only (Sun E.S.T.) winter months in 31,25 or 19 m. b.

AUSTRALASIAN SERVICE:
D. 08.25–09.15: English in 49, 31 or 25 m.b.
ANN.: "This is the International Service of the Canadian Broadcasting Corporation". "Ici Radio Canada". "This is Canada".
INT.-SIG.: First four notes of the National Anthem "O Canada"



MESSAGE TO LISTENERS: The CBC International Service greets shortwave listeners everywhere, and welcomes reports, queries, and comments on reception and programs. Please write to: Box 6000, Montreal. – **V.** by letter or QSL-card. – **PUB.:** CBC-Radio-Canada prgr. sched. *(ill.) published seven times a year and sent free on request.*

CBC HOME SERVICE, NATIONAL SERVICE (Publicly owned)
Abbreviations: Nf=Newfoundland. NS=Nova Scotia. PEI=Prince Edward Isl. NB=N. Brunswick. P=Pacific. Qu=Quebec. O=Ontario. M=Manitoba. Sa=Saskatchewan. Al=Alberta. BC=British Columbia. W=Winnipeg. Pr=Province. Prince R=Prince Rupert.
ADDR.: Canadian Broadcasting Corporation, 140 Wellington Street, Ottawa, O (Head Office). Locations of regional offices: T. A. Building, St. John's, Nf (Nf. Regional); United Services Building, Halifax, NS (Maritime Region); 1425 Dorchester Street West, Montreal, Qu (Qu Region); 354 Jarvis Street, Toronto, O (O Region); 541 Portage Ave. W., M (Prairie Region); 701 Hornby Str., Vancouver, BC (P Region). *London Office: The Langham, Portland Place, London W.1, England;* New York Offices: c/o United Nations, New York, N.Y., USA.
L.P.: Head Office: Gen.'Mgr.: J. A. Ouimet. Asst. Gen. Mgr.: E. L. Bushnell. Controller of Broadc.: Ch. Jennings. Asst. Controller of Broadc.: Marcel Ouimet. Dir. Eng.: W. G. Richardson. Dir. Pub. Rel.: R. C. Fraser. Dir. Inf. Sce.: P. A. Meggs.
See last minute corrections last page.

ENGLISH NETWORK:
Medium Waves:

		kc/s	kW			kc/s	kW	
1	CBN	640	10	St.John's-Nf	5	CBL	740	50	Toronto-O
	CBG	1450	0.25	Gander-Nf	6	CJBC	860	50	Toronto-O
	CBT	990	1	Gr.Falls-Nf	7	CBE	1550	10	Windsor-O
	CBY	790	1	Corner B.-Nf	8	CBW	990	50	Winnipeg-M
2	CBI	1140	5	Sydney-NS	9	CBK	540	50	Watrous-Sa
	CBH	1330	0.1	Halifax-NS	10	CBX	1010	50	Edmonton-Al
3	CBA	1070	50	Sackvil.-NB		CBXA	740	0.25	–
4	CBM	940	50	Montr.-Qu	11	CBU	690	10	Vanc.-BC
12	CBO	910	5	Ottawa-O		CFPR	1240	0.25	Prince R., BC

FM:

4	CBM	100.7	3.86	Montr.-Qu
12	CBO	103.3	0.38	Ottawa-O
5	CBC	99.1	11.90	Toronto-O
11	CBU	105.7	1.40	Vancouv.-BC

Short Waves:

1	CBNX	5970	0.3	St.John's*
11	CBUX	6160	0.5	Vancouver**

* Relay CBN ** Relay CBU

1. **Addr.:** Newfoundland Hotel, St. John's Nf. – **D. Prgr.:** 10.30–03.05. – **V.** by QSL-card.
2. **Addr.:** *247 Charlotte Str., Sydney, NS.* – **D. Prgr.:** W. 11.00–04.15. **V.** by QSL-card.
3. **Addr.:** United Services Building, 100 Sackville Str., Halifax, NS. **D. Prgr.:** W. 11.30–04.00. Sun. 12.45–04.15.
4. **Addr.:** Radio Canada Building, 1425 Dorchester Str., Montreal, Qu. – **D. Prgr.:** W. 12.00–05.00. Sun. 13.00–05.00.
5. **Addr.:** 354 Jarvis Str., Toronto 5, O. – **D. Prgr.:** W. 12.00–05.00. Sun. 13.00–05.00.
6. **Addr.:** 354 Jarvis Str., Toronto 5, O. – **D. Prgr.:** W. 12.00–05.00. Sun. 13.45–05.00
7. **Addr.:** Security Building, Windsor, O. – **D. Prgr.:** W. 12.45–05.30. Sun. 13.00–05.30
8. **Addr.:** P.O. Box 160, Winnipeg, M. – **D. Prgr.:** W. 12.45–06.00. Sun. 14.45–06.00.
9. **Addr.:** P.O. Box 148, Regina, Sa. – **D. Prgr.:** W. 13.45–08.00. Sun. 15.45–08.00.
10. **Addr.:** MacDonald Hotel, Edmonton, A. – **D. Prgr.:** 13.45–08.00.
11. **Addr.:** 701 Hornby Str., Vancouver, BC. – **D. Prgr.:** W. 14.45–08.00. Sun. 15.55–08.00. – **N.:** 15.30(W), 16.00, 19.00(Sun), 20.15(W), 23.00(Sun), 01.45(W), 03.00, 06.00, 07.57.
12. **Addr.:** Chateau Laurier Hotel, Ottawa, O.

FRENCH NETWORK:

M.W.	kc/s	kW	City		kc/s	kW	City
CBF	690	50	Montreal	CBV	980	5	Quebec
CBJ	1580	10	Chicoutimi	CBAF	1300	5	Moncton

FM: CBF 95.1 mc/s 3.86 kW Montreal.
CBAF (Basic St.): Addr.: Assumption Bldg., 232 St. George Str., Moncton, NB. – **D. Prgr.:** 11.00–04.30.
PUB.: "CBC Times" (English), weekly – Eastern, Prairie, and Pacific Coast editions. "La Semaine à Radio-Canada" (French), weekly.

PRIVATELY OWNED COMMERCIAL STATIONS

CANADIAN ASSOCIATION OF RADIO AND TELEVISION BROADCASTERS: Head Office, 108 Sparks Str., Ottawa 4.
Medium Waves: 84 low power stations not mentioned. FM: 27 stations

	Call	kc/s.	kW		Call	kc/s.	kW		Call	kc/s.	kW
1	CHLN	550	5d	33	CJBQ	800	1d	64	CKOC	1150	5d
2	CFNB	550	5d	34	CKLW	800	50d[2]	65	CKX	1150	5/1
3	CFRA	560	5d[2]	35	CKOK	800	1	66	CJOC	1220	10/5d
4	CJKL	560	5d	36	CKVL	850	50d[2]	67	CKCW	1220	10d
5	CJFX	580	5d	37	CHML	900	5d	68	CKDA	1220	10d[2]
6	CKEY	580	5/1d	38	CJBR	900	10d[2]	69	CFCW	1230	1
7	CKPR	580	5/1 [2]	39	CJVI	900	10d	70	CJAV	1240	0.25d
8	CKY	580	5d	40	CKBI	900	10d	71	CJCS	1240	0.25
9	CKUA	580	1 [2]	41	CJCH	920	5d	72	CJRW	1240	0.25
10	VOCM	590	10/1	42	CFBC	930	5d	73	CHWO	1250	1d
11	CFCF	600	5d[2-1]	43	CJCA	930	5d[2]	74	CKBL	1250	5d
12	CFCH	600	1d	44	CJON	930	5d	75	CKRB	1250	5/1d
13	CFQC	600	5d	45	CJGX	940	10/1	76	CFRN	1260	10 [2]
14	CJOR	600	5d	46	CKBB	950	5d[1]	77	CHAT	1270	1d
15	CHNC	610	5 [2]	15	CKNB	950	1d	78	CJCB	1270	5[1-2]
16	CKTB	610	5d[2]	47	CFAC	960	5d	79	CJMS	1280	5
17	CKCK	620	5d	48	CHNS	960	5d[1,2]	80	CKCV	1280	5d
18	CFCO	630	1d	49	CKWS	960	5d[2]	81	CKSL	1290	5d
19	CFCY	630	5d	50	CKCH	970	5d	82	CKOY	1310	5/1d
20	CJET	630	1d	51	CFPL	980	5d[2]	83	CHOV	1350	1d
21	CKRC	630	5d[1]	52	CHEX	980	5d	84	CKEN	1350	1
22	CHFA	680	5d	53	CKRM	980	5d	85	CKLB	1350	5d[2]
23	CJOB	680	10d[2]	54	CFRB	1010	50d[1,2]	86	CKLC	1380	5d[2]
24	CKGB	680	5d[2]	55	CFGP	1050	10d	87	CKLN	1390	1d
25	CFRG	710	5	56	CHUM	1050	5d	88	CKBC	1400	0.25
26	CKAC	730	50d	57	CJIC	1050	0.25	89	CKOM	1420	5d
27	CKLG	730	10d	58	CFCN	1060	10d[1]	90	CFAB	1450	0.25
28	CKSO	790	5d	59	CHOK	1070	5/1d	91	CFJR	1450	0.25
29	CFOB	800	1	60	CHED	1080	10/1d	92	CHEF	1450	0.25
30	CHAB	800	10d	61	CFJB	1090	0.25	93	CJOY	1450	0.25
31	CHRC	800	10d[2]	62	CKWX	1130	50d[1]	94	CFOR	1570	10/1
32	CJAD	800	10d	63	CHSJ	1150	5d	95	CHUB	1570	1d[2]
								96	CHVC	1600	5d

[1] Short Wave. [2] FM

Short Waves:	kc/s	kW	m.w.	Name
11. CFCX	6005	0.075	600	Canadian Marconi Co.
21. CKRO	6150	2	630	Transcanada Communications Ltd.
21. CKRX	11720	2	630	–
48. CHNX	6130	0.5	960	Maritime Broadcasting Co.
54. CFRX	6070	1	1010	Rogers Radio Broadcasting Co.
58. CFVP	6030	0.1	1060	Voice of the Prairies
62. CKFX	6080	0.01	1130	CKWX Radio
78. CJCX	6010	1	1270	Cape Breton Broadcasters Ltd.

1. – **R. Trois Rivieres Inc.,** 522 Bonaventure Str., Trois Rivieres, Qu. **D. Prgr.:** W. 09.50–04.00. Sun. 13.00–04.00.
2. – **R. CFNB,** 67 York St., Fredericton, N.B. – **D. Prgr.:** W. 10.30–04.15. Sun. 11.50–04.15.
3. – **CFRA Ltd.,** 150 Isabella St., Ottawa. – **D. Prgr.:** 24 h.
4. – **Kirkland Lake Broadc. Ltd.,** *Government Rd. W., Kirkland Lake.* **D. Prgr.:** W. 11.00–05.15. Sun. 13.00–05.15.
5. – **Atlantic Broadcasters Ltd.,** St. Ninian Str., Antigonish, N.S. – **D. Prgr.:** 10.45(Sun. 13.00)–04.15. – **V.** by letter.
6. – **Toronto Broadc. Co.,** 444 University Ave., Toronto, O.: 24 h.
7. – **H. F. Dougall Co.,** Ltd., 414 Victoria Ave., Fort William, O. – **D. Prgr.:** 11.40 (Sun. 14.00)–05.00. – **FM:** 94.3 mc/s.
8. – **Broadc. St. CKY Ltd.,** 432 Main Str., Winnipeg, M. – **L.P.:** Dir. Gen.: L. E. Moffat. – **D. Prgr.:** 24 h. – **V.** by letter.
9. – **University of Alberta,** 10526 Jasper Ave., Edmonton, A. – **D. Prgr.:** 13.45–07.05. – **FM:** 98.1 mc/s.
10. – **Colonial Broadc. System, Ltd.,** McBride's Hill, St. John's Nfld. **D. Prgr.:** W. 10.00–04.30(Sat. 05.30). Sun. 11.00–04.30.
11. – **Canadian Marconi Co. Ltd.,** 4824 Cote des Neiges Rd., Montreal, Qu. – **D. Prgr.:** 24 h. – **V.** by QSL-card. – **FM:** 106.6 mc/s.
12. – **Northern Broadc. Ltd.,** 581 Fraser Str., North Bay, O. – **L.P.:** Dir. Gen.: K. Thomson. – **D. Prgr.:** 11.40–05.10. – **V.** by letter.
13. – **Radio CFQC,** 216 First Ave. N., Saskatoon, Sas. – **D. Prgr.:** W. 24 h. Sun. 16.00–09.00. – **L.P.:** Dir. Gen.: A. A. Murphy.
14. – **CJOR Ltd.,** 846 Howe Str., Vancouver, B.C. – **L.P.:** Dir. Gen.: G. Chandler. – **D. Prgr.:** 14.00–08.00. – **V.** by QSL-card or letter.
15. – **Radio St. CHNC,** N. Carlisle, Qu. – **L.P.:** Dir. Gen.: Dr. C. H. Houde. – **D. Prgr.:** French: 12.00–05.00. – **CKNB:** English: 11.30–04.00. – **FM:** 152.75 mc/s.
16. – **The Niagara Distr. Broadc. Co. Ltd.,** 12 Yates Str., St. Catharines, O. – **L.P.:** Dir. Gen.: Miss M. C. Burgoyne. Dir. Tec.: W. Allen. – **D. Prgr.:** 10.45–05.10. – **V.** by QSL-card or letter. – **FM:** 97.7 mc/s 0.25 kW. **Polish:** Sat. 19.00–19.30. Sun. 14.00–15.00. **German:** Sun. 02.00–03.00. **Ukrainian:** Sun., Sat. 10.00–19.00. **Dutch:** Mo. 02.00–03.00.

NORTH AMERICA
GREENLAND
1:40 Mill.
KM
0
500
1000
2000
Arctic Ocean
Baffin Bay
Davis Strait
Denmark Strait
Hudson Bay
GREENLAND
ALASKA
CANADA
UNITED STATES
MEXICO
NORTH PACIFIC OCEAN
NORTH ATLANTIC OCEAN
GULF OF MEXICO
CARIBBEAN SEA
CENTRAL AMERICA
VENEZUELA
COLUMBIA
Yukon
North West Territories
Alberta
Saskatchewan
Manitoba
Ontario
Quebec
Labrador
Baffin Isl
Washington
Oregon
Idaho
Montana
Wyoming
Nevada
Utah
Arizona
Colorado
New Mexico
Texas
Kansas
Oklahoma
Nebraska
N. Dakota
S. Dakota
Minnesota
Iowa
Wisconsin
Michigan
Illinois
Indiana
Ohio
Kentucky
Tennessee
Arkansas
Missouri
Louisiana
Mississippi
Alabama
Georgia
Florida
Pennsylvania
New York
Maine
Connecticut
Massachusetts
Delaware
Maryland
Virginia
N. Carolina
S. Carolina
Bahama
CUBA
HAITI
JAMAICA
PUERTO RICO
DOMINICAN REP.
Bermuda
THULE
UPERNAVIK
GODHAVN
ANGMAGSSALIK
GODTHAB
FREDERIKSHAB
FAIRBANKS
ANCHORAGE
CORDOVA
NELSON
KOVIK
GRAND FALLS
GANDER
ST JOHN'S
ST PIERRE
New Foundland
SYDNEY
SACKVILLE
WINDSOR
HALIFAX
SAINT JOHN
DRUMMONDVILLE
WOODSTOCK
MONCTON
ST JOHN
CHICOUTIMI
TIMMINS
QUEBEC
TROIS RIVIERES
VERCHERES
MONTREAL
OTTAWA
PORT ARTHUR
FORT WILLIAM
SUDBURY
TORONTO
LONDON
BUFFALO
NEW YORK
BOUND BROOK
PHILADELPHIA
PITTSB
WASHINGTON
RICHMOND
RALEIGH
CHARLOTTE
ATLANTA
BIRMINGHAM
NASHVILLE
LOUISVILLE
CINCINNATI
INDIANAPOLIS
DETROIT
CHICAGO
WATERLOO
DESMOINES
OMAHA
K CITY
ST LOUIS
LAWRENCE
TULSA
OKLAHOMA CITY
LITTLE ROCK
DALLAS
SHREVEP
FORT WORTH
HOUSTON
NEW ORLEANS
HOLLYWOOD
MIAMI
NASSAU
HABANA
PETIONVILLE
KINGSTON
MARACAIBO
MERIDA
PANAMA
SAN JOSE
MEDELLIN
GUATEMALA CITY
SAN SALVADOR
TEGUCIGALPA
MANAGUA
BELIZE
VERA CRUZ
MEXICO CITY
LEON
ST LOUIS
TAMPICO
LA PIEDAD
MONTERREY
REYNOSA
CORPUS CHRISTI
JUAREZ
TORREON
NUEVO LAREDO
PIEDRAS NEGRAS
HERMOSILLO
SAN ANTONIO
ROSARIO
GUADALAJARA
MORELIA
PUEBLA
ALBUQUERQUE
SALT LAKE CITY
DENVER
SACRAMENTO
SAN FRANCISCO
FRESNO
DELANO
HOLLYWOOD
LOS ANGELES
California
SPOKANE
PORTLAND
VICTORIA
SEATTLE
VANCOUVER
KAMLOOPS
KELOWNA
CALGARY
MEDICINE HAT
LETHBRIDGE
BRANDON
WINNIPEG
PRINCE ALBERT
SASKATOON
WATROUS
REGINA
EDMONTON
MINNEAPOLIS
ST PAUL
SACRAMENTO
70°
60°
50°
40°
30°
20°
10°
140°
130°
120°
110°
100°
90°
80°
70°

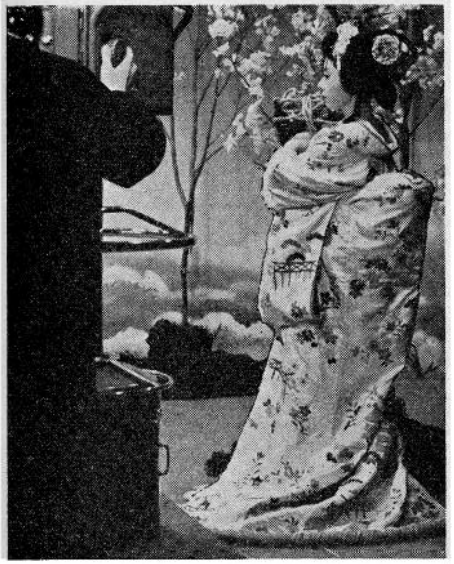
17. – **Transcanada Communications**, The Leader Post Bldg., Regina, Sas. – **L.P.**: Asst. Mgr.: D. R. Dawson. Dir. Tec.: E. A. Strong. – **D. Prgr.**: 12.00–08.00. – **V.** by QSL-card.
18. – **P.O. Box 550**, Chatham, O. – **L.P.**: Owner, Mgr.: J. Beardall. – **D. Prgr.**: 12.15(Sun. 14.00)–04.30. – **V.** by QSL-card. R. p.
19. – **Island R. Broadc. Co. Ltd.**, Broadc. Centre, 85 Kent Str., Charlottetown, PEI. – **D. Prgr.**: 11.15(Sun. 13.00)–04.00.
20. – **Rideau Broadc. Ltd.**, 10 Beckwith Str., Smith Falls, O. – **L.P.**: Dir. Gen., Mgr.: J. W. Pollie. – **D. Prgr.**: 11.00–05.00. – **V.** by letter.
21. – **Transcanada Communications Ltd.**, 300 Carlton Str., Winnipeg. **D. Prgr.**: W. 11.30–07.05. Sun. 13.15–06.30. – **V.** by letter.
22. – **R. Edmonton Ltd.**, 10012–109th Str., Edmonton A. – **D. Prgr.**: 14.00(Sun. 17.00)–07.00.
23. – **Blick Broadc. Ltd.**, Lindsay Bldg., 228 Notre Dame Ave., Winnipeg, Man. – **D. Prgr.**: 24 h. – **FM**: 103.1 mc/s.
24. – **Timmins Broadc. Co. Ltd.**, Thomson Bldg., Timmins, O. – **D. Prgr.**: W. 11.00–05.15(Sat. 06.00). Sun. 11.58–05.15. – **FM**: 94.5 mc/s.
25. – **Radio Gravelbourg**, Gravelbourg, Sas. – **D. Prgr.**: W. 14.00–05.00. Sun. 18.00–05.00.
26. – **La Cie. de Publication de "La Presse"**, 980 St. Catherine Str., W., Montreal, Qu. – **D. Prgr.**: 09.55–04.35.
27. – **Lions Gate Broadc. Ltd.**, 143 East 11th Str. N., Vancouver, B.C. **D. Prgr.**: 14.00(Sun. 16.00)–08.05.
28. – **CKSO R. Ltd.**, 336 Ash Str., Sudbury, O. – **D. Prgr.**: 11.00 (Sun. 12.00)–06.00.
29. – **Border Broadc. Ltd.**, 242 Scott Str., Fort Frances, O. – **L.P.**: Dir. Gen., Mgr.: D. A. Fawcett. – **D. Prgr.**: 11.00–05.00.
30. – **R. St. CHAB**, Davis Bldg., Moose Jaw, Sa. – **L.P.**: Mgr.: S. Boyling. Dir. Tec.: M. Pickford. – **D. Prgr.**: 13.00–07.00. – **V.** by letter.
31. – **CHRC Ltd.**, 39 rue St-Jean, Quebec. – **D. Prgr.**: 11.00–05.00. – **V.** by QSL-card. – **FM**: 98.1 mc/s.
32. – **CJAD Ltd.**, 1191 Mountain Str., Montreal, Qu. – **D. Prgr.**: 11.00(Sun. 12.00)–05.00.
33. – **Quinte Broadc. Ltd.**, P.O. Box 399, Belleville, O. – **L.P.**: Mgr.: W. H. Stovin. – **D. Prgr.**: 11.15–05.05. – **V.** by letter. R.p.
34. – **Western Ontario Broadc. Co. Ltd.**, 825 Riverside Drive West, Windsor, O. – **D. Prgr.**: W. 10.30–06.30. Sun. 12.00–06.00.
35. – **CKOK Ltd.**, 125 Nanaimo Ave. W., Penticton, B.C. – **L.P.**: Dir. Gen.: M. P. Finnerty. – **D. Prgr.**: 14.00–09.00. – **V.** by QSL-card. –
36. – **CKVL Ltd.**, 211 Gordon Ave., Verdun, Qu. – **D. Prgr.**: 24 h.
37. – **Maple Leaf Broadc. Co. Ltd.**, 848 Main Str. E., Hamilton, O. – **D. Prgr.**: 10.00(Sun. 12.00)–07.00.
38. – **Radio St. CJBR**, 6 St. Jean Str., Rimouski, Qu. – **L.P.**: Dir. Gen.: J. Brillant. – **D. Prgr.**: 11.00–06.00. – **FM**: 101.5 mc/s.
39. – **Island Broadc. Co. Ltd.**, 817 Fort Str., Victoria, B.C. – **L.P.**: Mgr.: W. M. Guild. – **D. Prgr.**: W. 24 h. Sun. 14.00–08.00. – **V.** by letter.
40. – **Central Broadc. Co. Ltd.**, CKBI Bldg., 10th Str., Prince Albert, Sas. – **D. Prgr.**: 13.00(Sun. 14.00)–08.00.
41. – **CJCH Ltd.**, 741 Robie Str., Halifax, N.S. – **D. Prgr.**: 10.00–04.10(Sat. 05.10).
42. – **Fundy Broadc. Co. Ltd.**, 68 Carleton Str., S. John, N.B. – **D. Prgr.**: W. 09.30–04.30. Sun. 11.30–04.15.
43. – **Edmonton Broadc. Ltd.**, 10113–104th Str., Edmonton, A. – **D. Prgr.**: 20 h. – **FM**: 99.5 mc/s.
44. – **The Newfoundland Broadc. Co. Ltd.**, Prince of Wales Str., St. John's, Nfld. – **D. Prgr.**: 09.30–04.30.
45. – **Yorkton Broadc. Co. Ltd.**, Tower Theatre Bldg., 2nd Ave., Yorkton, Sas. – **D. Prgr.**: W. 13.00–07.00(Sat. 08.00). Sun. 14.00–07.00.
46. – **Barrie Broadc. Co., Ltd.** P.O. Box 519, Barrie, O. – **D. Prgr.**: 11.00–04.30. – **V.** by QSL-card or letter. R.p.
47. – **Calgary Broadc. Co. Ltd.**, Greyhound Bldg., Calgary, A. – **D.Prgr.** W. 12.30–08.00. Sun. 14.00–07.00.
48. – **The Maritime Broadc. Co.**, Broadc. House, 10 Tobin Str., Halifax, N.S. – **D.Prgr.**: 10.00 (Sun. 12.30)–04.15. – **FM**: 96.1 mc/s.
49. – **The Frontenac Broadc. Co.**, 170 Queen Str., Kingston, O. – **D. Prgr.**: W. 24 h. Sun. 12.45–05.10.
50. – **Radio CKCH**, 121 Notre-Dame Str., Hull, Qu. – **L.P.**: Dir.Gen.: M. A. Gratton. – **D. Prgr.**: French 10.58–06.12. – **V.** by letter.
51. – **London Free Press Printing Co. Ltd.**, 442-6 Richmond Str., London, O. – **D. Prgr.**: 24 h. – **V.** by letter. – **FM**: 95.9 mc/s.
52. – **Kawartha Broadc. Co. Ltd.**, P.O. Box 657, Peterborough, O. – **D. Prgr.**: 11.00 (Sun. 13.40)–05.10. – **V.** by QSL-card. R.p.
53. – **W. Communications Ltd.**, 2060 Halifax Str., Regina, Sas. – **D. Prgr.**: W. 12.30–08.00. Sun. 14.00–07.00.
54. – **Rogers R. Broadc. Co.**, 37 Bloor Str. W, Toronto 5, O. – **D. Prgr.**: W. 10.45–06.05. Sun. 13.00–05.05. – **V.** by QSL-card.
55. – **Northern Broadc. Co. Ltd.**, 9910–99th Str., Grande Prairie, A. – **D. Prgr.**: 13.00 (Sun. 15.00)–07.00.
56. – **York Broadcasters Ltd.**, 250 Adelaide Str., Toronto, O.: 24 h.
57. – **Hyland Radio-TV Ltd.**, 119 East Str., Sault Ste. Marie, O. – **L.P.**: Dir. Gen.: Mrs. J. G. Hyland. – **D. Prgr.**: 24 h. – **V.** by QSL-card.
58. – **The Voice of the Prairies Ltd.**, 712 12th Ave. E., Calgary, A. – **D. Prgr.**: 24 h. exc. Mo. 07.00–13.00.
59. – **Sarnia Broadc. Co. Ltd.**, 148½ Front Str. N., Sarnia, O. – **L.P.**: Dir. Gen.: C. Irvine. – **D. Prgr.**: 10.58–05.10 – **V** by letter.
60. – **CHED Ltd.**, 10006–107th Str., Edmonton, A. – **D. Prgr.**: 24 h.
61. – **Broadc. St. CFJB.**, 2 Ellen Str., Brampton, O. – **D. Prgr.**: Sunrise–Sunset. – **V.** by letter.
62. – **CKWX.**, 1275 Burrard Str., Vancouver B.C. – **D. Prgr.**: 24 h. – **V.** by letter.
63. – **N. Brunswick Broadc. Co.**, 14 Church Str., S. John, N.B. – **D. Prgr.**: W. 10.00–05.00. Sun. 11.55–04.15.
64. – **Wentworth R. Broadc. Co. Ltd.**, 32 John Str. N., Hamilton, O. – **D. Prgr.**: W. 10.45–06.10. Sun. 12.00–05.10.
65. – **Western Manitoba Broadcasters Ltd.**, 2940 Victoria Ave., Brandon, Man. – **D. Prgr.**: W. 12.00–07.00. Sun. 14.00–06.00.
66. – **Lethbridge Broadc. Ltd.**, 1015 Third Ave., S., Lethbridge, A. – **D. Prgr.**: W. 13.00–08.00. Sun. 14.00–07.00.
67. – **Moncton Broadc. Ltd.**, Knights of Pythias Bldg., Moncton, N.B. – **D. Prgr.**: W. 10.00–05.00 (Sat. 06.00). Sun. 12.00–04.15.
68. – **Capital Broadc. System Ltd.**, Hotel Douglas, Victoria, B.C. – **D. Prgr.**: W. 24 h. Sun. 15.00–08.00. – **V.** by letter. – **FM**: 98.5 mc/s.
69. – **Camrose Broadc. Co. Ltd.**, 4935, 50th Str., Camrose, A. – **L.P.**: Dir. Gen.: H. J. Yerxa. – **D. Prgr.**: 13.00–07.00. – **V.** by letter.
70. – **CJAV Ltd.**, 735 Third Ave N., Port Alberni, B.C. – **L.P.**: Pres.: K. Hutcheson. – **D. Prgr.**: 13.58–08.00.
71. – **CJCS Ltd.**, 125 Ontario Str., Stratford, O. – **L.P.**: Dir. Gen.: F. M. Squires. – **D. Prgr.**: 11.25–05.05. – **V.** by QSL-card or letter. –
72. – **The Gulf Broadc. Co. Ltd.**, 218 Water Str., Summerside, PEI. – **L.P.**: Dir. Gen.: R. C. Schurman. – **D. Prgr.**: W. 10.00–04.05. Sun. 12.45–04.05.
73. – **CHWO Radio Ltd.**, 34A Colborne Str., W., Oakville, O. – **L.P.**: Dir. Gen.: H. Caine. – **D. Prgr.**: 10.55–06.15. – **V.** by letter.
74. – **La Cie. de Radiodiffusion de Matane Ltee.**, 4 St. Sacrement Str., Matane, Qu. – **D. Prgr.**: 12.00–(Sun. 13.55)–05.00.
75. – **Radio Beauce Inc.**, 30 St. Antoine Str., Ville St. Georges, Beauce, Qu. – **D. Prgr.**: W. 12.00–04.00. Sun. 16.00–04.10.
76. – **Sunwapta Broadc. Co. Ltd.**, 109 CPR Bldg., Edmonton, A. – **L.P.**: Dir. Gen.: G. R. A. Rice. – **D. Prgr.**: 24 h. – **V.** by letter.
77. – **Monarch Broadc. Co. Ltd.**, 520, 1st Str., Medicine Hat, A. – **L.P.**: Gen. Mgr.: R. J. Buss. – **D. Prgr.**: 13.00–07.00. – **V.** by letter.
78. – **Cape Breton Broadcasters Ltd.**, R. Bldg., Sydney, N. S. – **D. Prgr.**: 11.00–04.00. – **V.** by QSL-card. – **FM**: 94.9 mc/s.
79. – **Radio CJMS**, P. O. Box 4000, Station "N", Montreal, Qu. – **L.P.**: Gen. Mgr.: F. Guay. – **D. Prgr.**: French 24 h. – **V.** by letter.
80. – **CKCV Ltee**, 978 St. John Str., Quebec. – **D. Prgr.** W. 11.00–05.00. Sun. 13.00–05.00.
81. – **London Broadcasters Ltd.**, 343 Richmond Str., London, O. – **D. Prgr.**: W. 24 h. exc. Mo. 05.05–10.45.
82. – **CKOY Ltd.**, 635 Richmond Str., Ottawa, O. – **D. Prgr.**: 24 h.
83. – **The Ottawa Valley Broadc. Co. Ltd.**, 319 Pembroke Str. W., Pembroke, O. – **L.P.**: Pres., Gen. Mgr.: E. G. Archibald. – **D. Prgr.**: 12.00–05.00. – **V.** by letter. R.p.
84. – **Evangeline Broadc. Co. Ltd.**, 11 Webster Str., Kentville, N. S. – **L.P.**: Mgr.: J. A. C. Lewis. – **D. Prgr.**: 11.00–03.00. – **V.** by letter.
CKEN and CFAB same prgr.
85. – **The Lakeland Broadc. Co. Ltd.**, 16 Centre Str., Oshawa, O. – **L.P.**: Dir. Gen.: A. H. Collins. – **D. Prgr.**: 11.00–06.00. – **V.** by letter.
86. – **St. Lawrence Broadc. Co. Ltd.**, 99 Brook Str., Kingston, O. – **D. Prgr.**: W. 24 h. Sun. 12.30–05.00. – **FM**: 99.5 mc/s.
87. – **Radio CKLN**, P.O. Box 250, Nelson, B.C. – **L.P.**: Mgr.: A. R. Ramsden. – **D. Prgr.**: 14.00–08.00. – **V.** by letter.
88. – **Bathurst Broadc. Co. Ltd.**, 455 Golf Str., Bathurst, N.B. – **D. Prgr.**: W. 11.00–04.00. Sun. 15.45–03.00.
89. – **Saskatoon Community Broadc. Co. Ltd.**, Empire Hotel, Saskatoon, Sas. – **D. Prgr.**: W. 13.00–18.00. Sun. 14.00–08.00.
90. – **CFAB** see 84)
91. – **Radio St. CFJR**, Revere Hotel Bldg., Brockville, O. – **L.P.**: Dir. Gen., Mgr.: J. R. Radford. – **D. Prgr.**: 12.00–04.30.
92 – **La Voix de l'Est**, 13 Centre Str., Granby, Qu. – **L.P.**: Dir. Gen.: A. Laurion. – **D. Prgr.**: French 10.45–04.00. – **F.PL.**: Increase 1 kW.
93. – **CJOY Ltd.**, 50 Wyndham Str., Gueplh, O. – **L.P.**: Mgr.: W. Slatter. – **D. Prgr.**: 24 h. – **V.** by letter. – **F.PL.**: 10 kW 1430/1959.
94. – **Radio CFOR**, 241 West Str., N. Orillia, O – **D. Prgr.**: W. 11.00–05.15. Sun. 12.45–05.15. – **V.** by letter. R.p.
95. – **Radio CHUB**, Malaspina Hotel, Nanaimo, B. C. – **L.P.**: Man. Dir.: C. J. Rudd. – **D. Prgr.**: 14.00–09.00. – **V.** by QSL-card. R.p. – **FM**: 1168,2 m, 1/40 kW. – **F.PL.**: Increase to 10 kW by 1959.
96. – **CHVC Ltd.**, 1745 River Rd., Niagara Falls, O. – **D. Prgr.**: W. 11.00–05.05. Sun. 12.45–03.45.

★ MEXICO ★

L.T.: GMT÷6 h. (Mexico generally); GMT÷7 h (Sonora, Sinaloa, Nayarit, and Lower California); GMT÷8 h. (Upper California). – **L.**: Spanish. – **Rcvrs.**: 2.500.000.
ABBREVIATIONS: Ags=Aguascalientes; B.C.=Baja California; Cam=Campeche; Chih=Chihuahua; Chis=Chiapas; Coah=Coahuila; Col=Colima; Dgo=Durango; Gro=Guerrero; Gto=Guana-

1

2



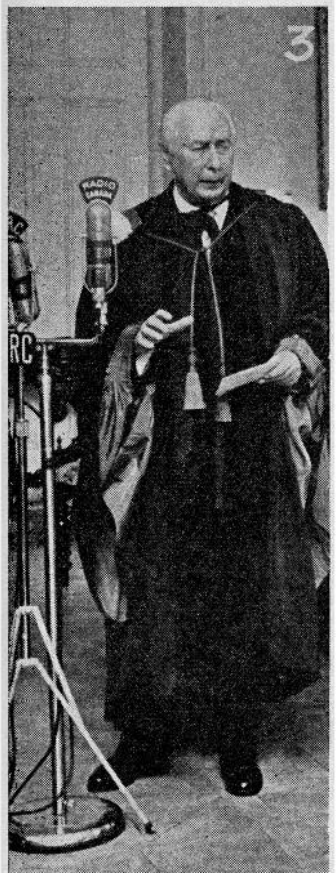
1 Radio Yaounde, Cameroon: Bamoun warriors sing about the exploits of their ancestors.

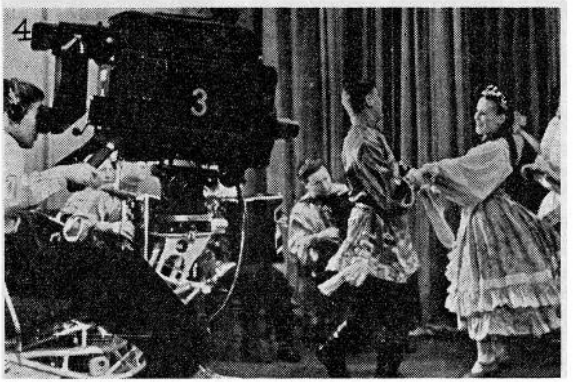
2 The T.V. station of Asahi Broadcasting Co.: Telecasting Japanese classical drama "Kabuki" in the studio.

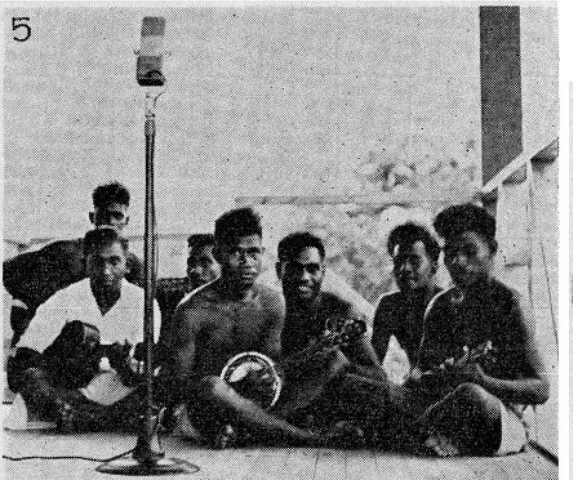
3 Radio Canada, International Sce.: Professor Dr. Theodor Heuss, president of the Federal Republic of Germany, receiving Honorary degree from Laval University in Quebec City.

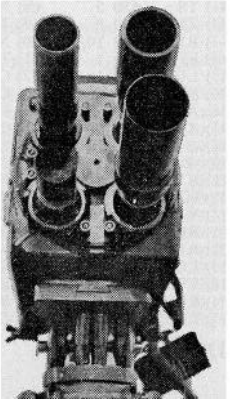
4 Moscow TV., USSR: Song and dance from Ural performed in the Moscow TV-studio.

5 Solomon Islands Broadcasting Sce.: The Auki Band plays music for Melanesians.









uato; Hgo=Hidalgo; Jal=Jalisco; Mex=Mexico; Mich=Michoacan; Mor=Morelos; Nay=Nayarit; N.L.=Nuevo Leon; Oax=Oaxaca; Pue=Puebla; Qro=Queretaro; Sin=Sinaloa; S.L.P.=San Luis Potosi; Son=Sonora; Tab=Tabasco; Tams=Tamaulipas; Tlax=Tlaxcala; Ver=Vera Cruz; Yuc=Yucatan; Zac=Zacatecas.

Secretaria de Comunicaciones y Obras Publicas.
Direccion General de Telecomunicaciones, Departemento de Radiodifusion, Col. Narvarte, Mexico D.F.

STATIONS (*=inactive).

Cultural Stations: Short Waves. Call: XE--.

Call	kc/s	m	kW	m.w.	Name and h. of transm.
1) JG	4820	62.24	0.2	630	Gobierno del Estado de Jalisco: 14.00–03.00
2) XA	6175	48.58	0.1		R. Gobernación: Mo. 04.00–05.00
3) YU	9605	31.24	0.25	860	Universidad Nac. de Mexico: 14.00–05.00
4) RUU	15300	19.60	0.25	1310	Universidad de Chih.: 17.00–22.00

Medium Waves (°=short wave). **Call: XE--.**

Call	kc/s	kW	Call	kc/s	kW	Call	kc/s	kW
1) JB	°630	0.5	4) RU	°1310	1/0.25	5) XB	1400	0.5/0.2
3) UN	°860	5				6) XQ	1460	0.25

Commercial Stations: Short Waves. Call: XE--.

Call	kc/s	m	kW	m.w.	Name and h. of transm.
7) OI	6010	49.92	2.5	1000	R. Mil: 12.00–07.00
8) UW	6020	49.88	0.25	960	El Eco de Sotavento: 12.00–06.00
9) KW	6030	49.75	0.5	1300	R. Continente: 13.00–05.00
10) TW	6045	49.63	0.1	810	La Voz de Tampico: 10.30–06.00
11) Q	6080	49.34	5	940	R. Mexicana del Centro: 11.50–06.45
12) CMT	6090	49.26	5	1450	R. Mante: 12.55–02.00
13) QM	6105	49.14	0.25	1240	Emis. Unidas de Yuc.: 13.00–05.00
14) RCM	6130	48.94	0.1	1110	R. Cadena Nacional: 11.00–07.00
15) WW	9500	31.58	20	900	La Voz de la America Latina: 11.45–06.00
16) XF	*9535	31.46	5	730	R.dif. Mexico
17) FT	9545	31.43	0.25	1250	La Voz de Vera Cruz: 12.00–05.00
18) TT	9555	31.40	0.5	1350	La Hora Exacta: 12.00–06.00
19) BT	9625	31.17	10	1220	Cadena Radiopolis: 12.00–06.00
11) QQ	9680	30.99	10	940	R. Mex. del Centro: 11.50–06.45
20) NN	*11780	25.47	0.5	690	R. XEN/XENN
21) BR	11820	25.38	0.15	920	El Heraldo de Sonora: 13.00–05.00
22) LZZ	11860	25.29	10	1440	R. Independiente: 13.00–06.00
23) HH	11880	25.25	1	1500	R.dif. XERH/XEHH: 13.00–06.00
16) XE	*11900	25.21	5	730	R.dif. Mexico
15) WW	15160	19.79	10	900	La Voz de la America Latina: 11.45–06.00
24) SC	15205	19.73	5	1590	El Heraldo de las Telas de Junco: 24 h.

Medium Waves: Call: XE--. (°=short wave).

Call	kc/s	kW	Call	kc/s	kW	Call	kc/s	kW
15) WA	540	150	56) TQ	850	10	17) TF	°1250	0.5
25) QW	550	5	57)	860	1	81) L	1260	10
26) LQ	570	1	58) MO	860	5	82) CV	1260	1
27) TJ	570	1	15) W	°900	250	83) AG	1280	1
28) AV	580	25	15) WM	900	0.5	16) AW	1280	5
29) FI	580	5/0.25	21) BH	°920	5/1	84) DA	1290	1
30) MU	580	5/0.25	59) BM	920	5/1	9) SF	°1300	0.5
31) FD	590	5/0.25	11) Q	°940	150/50	85) BP	1310	10/0.25
32) PH	590	5	60) WV	940	1	86) FH	1310	1
33) BB	600	5/1	61) GM	950	3.5/2.5	87) HV	1310	1
34) DN	600	1	62) K	960	1	88) PO	1310	1
35) Z	600	10	8) U	°960	0.5	89) AI	1320	1
36) BX	610	5/0.5	63) DF	960	5/1	90) BO	1330	1
37) GS	610	5/0.75	64) J	970	10/5	91) FC	1330	1
38) NK	620	10/5	65) O	970	1	18) QK	°1350	1
39) FB	630	10	66) DF	970	10	92) TB	1350	5/0.5
40) FU	630	2/0.75	67) LC	980	5/1	93) TM	1350	1
41) TS	650	5	68) NR	980	5/0.5	94) A	1370	1
42) ZM	650	5	69) TU	980	5/1	95) HF	1370	1
43) RPM	660	10/5	70) XT	980	1	96) MR	1370	10
44) FJ	680	1	71) T	990	50/5	97) MX	1380	5
45) LG	680	1	72) CL	990	5	98) RS	1380	2.5
20) N	°690	5	7) OY	°1000	10	99) M	1390	5
46) AC	690	50	73) HL	1010	10/5	100) OR	1390	1
47) AK	690	50	51) QR	1030	10/1	101) TL	1390	1
48) OC	710	10	74) D	1050	10	102) SP	1400	1
49) ON	710	1	75) G	1050	150	103) BS	1410	5/1
16) X	°730	500	76) RB	1090	50	104) F	1420	5/0.5
50) HJ	760	1	77) RG	1090	2.5	105) H	1420	1
15) WB	°760	50	14) RCN	°1110	50	106) EW	1420	1
51) RC	790	5/1	78) TR	1120	1	107) WE	1420	5/0.17
52) AN	800	1	79) RT	1170	5/0.25	108) XX	1420	2
53) LO	800	150	15) WK	1190	50	109) CZ	1430	1
10) FW	°810	50	19) B	°1220	100	110) HD	1430	2/0.15
54) LA	830	10/5	13) MQ	°1240	1/0.25	111) LL	1430	5/0.25
55) LA	840	1	80) DF	1250	1	112) OX	1430	5/0.5
22) LZ	°1440	5/1	117) PR	1480	5	121) GE	1570	1
12) CM	°1450	1/0.25	16) OB	1490	50	122) RF	1570	150
113) LX	1460	10	23) RH	°1500	20	123) DM	1580	50
114) YC	1460	1	118) GD	1520	1	124) NQ	1580	1
115) AU	1470	5	119) BG	1550	1	24) MC	°1590	10/5
116) SM	1470	10/5	120) JJ	1550	10			

+ 154 low power st. not mentioned.

FM:	mc/s	kW	Call	mc/s	kW	Call	mc/s	kW
71) T	88.1	0.25	105) H	94.1	1	20) N	99.7	
96) MR	88.3	0.05	15) W	92.2	40	7) OY	100.5	3
15) W	90.7	30	15) W	96.9	10	15) W	106.9	10

The Mexican government requires all st.s to carry "La Hora Nacional del Gobierno Mexicano" every Mo.: 04.00–05.00. The broadcast originates in the studios of XEW usually, and the technical facilities are used in transmitting the prgr. and relaying to all other st.s.

Cultural Stations:

1) Palacio de Gobierno, Guadalajara, Jal.
2) Calle de Bucareli, Sria. de Gobernación, Mexico, D.F. – **D. Prgr.:** "La Hora Nacional" Mo. 04.00–05.00.
3) R. Universidad, Ci. Universitaria, Mexico, D.F.
4) Chihuahua, Chih. – **D. Prgr. in Spanish & local dialects.**
5) Universidad Veracruzana, Domicilio Conocido, Jalapa, Ver.
6) Universidad Autonoma de San Luis Potosi, Domicilio Conocido, San Luis Potosi, S.L.P.

Commercial Stations:

Short Waves:

7) Fomento de Radio S.A., Ayuntamiento 101, Mexico, D.F. – **Cable:** "Radio Mil." – **FM:** 22.15–07.00, classical music only. – **ANN.:** "En los mil kilociclos de su radio, esta es Radio Mil, con su musica bailable a su gusto". – **V.** by QSL-card or letter.
8) Av. Independencia 230, Veracruz, Ver. – **V.** by letter.
9) Allende No. 29, Morelia, Mich.
10) Madero, 416 Oriente, Apt. Postal 797, Tampico, Tams. – **D. Prgr.: Spanish:** 13.30–00.30. **English** (for USA): 10.30–13.30, 00.30–06.00. – **V.** by letter and QSL-card.
11) José Maria Marroqui 11, Mexico D.F. – **L.P.:** Dir. Gen.: E. Balli. Dir. Prgr.: E. Cardona. Dir. Tec.: J. de la Herrans. – **D. Prgr.: N.:** 12.15, 13.15, 14.00, 19.45, 20.30, 00.25, 01.00, 01.25, 03.30, 04.15 05.00, 06.00. **Nat. Music:** 12.00, 13.00, 16.00, 19.00. (9680 kc/s for So. America; Rel. st.s: XEAW Monterrey, XEOB Torreon). – **ANN.:** "XEQ, su Red de potentes estaciones". – **V.** by QSL-card or letter.
12) P.O. Box 79, Ci. El Mante. – **V.** by post-card.
13) Calle 60–735 "O", Merida, Yuc. – **V.** by letter.
14) Bucareli 12, Mexico 1, D.F. – **L.P.:** Dir. Gen.: R. C. Navarro. Gen. Mgr.: J. M. Romero. Dir. Tec.: M. M. Huerta. – **D. Prgr.:** 11.00–07.00. **N.:** 12.00, 01.00, 03.30, 05.45. **Comm.:** 08.15, 14.30. **Wrp.:** 15.30. – **ANN.:** "Aqui Mexico... XERCN, Estacion Piloto de Radio Cadena Nacional... 1110 kilociclos". – **V.** by QSL-card. R.p. wanted.
15) Cadena R.dif. Mexicana, Ayuntamiento 54, Mexico, D.F. – **L.P.:** Pres.: E. Azcarraga V. Dir. Gen.: E. Azcarraga M. Dir. Tec.: J. de la Herrans. – **D. Prgr.: N.:** 12.00, 14.00, 20.30, 00.45, 04.45, 05.45. – **Relay st.:** XEVA San Luis Potosi, XEWB Veracruz, XEWM Monterrey, XEWK Guadalajara. – **ANN.:** "XEW y XEWW La Voz de la America Latina desde Mexico". – **F.PL.:** 3 m.w. tr. Pacific coast, 3 FM tr., 1 s.w. tr. in Mexico 50 m.b.
16) José Maria Marroqui 11, Mexico D.F. – **D. Prgr.:** 11.45–06.45 relay of XEQ.
17) Ave. Independencia 74, Veracruz, Ver. – **V.** by QSL-card.
18) Dolores 10, Mexico D.F. – **L.P.:** Dir.: G. Morales B. – **D. Prgr.:** m.w. 24 h. – **ANN.:** "XEQK, Radio Reloj de la Hora".
19) Calle Ayuntamiento 54, Mexico D.F. – **L.P.:** as 15). – **D. Prgr.:** Concert D. 04.00. – **V.** by QSL-card or letter.
20) Calz. a Mexico No. 44, Mexico D.F.
21) P.O. Box 68, Hermosillo, Son. – **L.P.:** Dir.: C. Balderrama. – **D. Prgr.: N.:** 13.30, 20.30, 03.00. – **ANN.:** "XEBH, XEBR El Heraldo de Sonora desde Hermosillo". – **V.** by letter.
22) Rio Po 46, Col Cuauhtémoc, Mexico 5, D.F. – **L.P.:** Dir.: M. Cardona de Zetina. – **D. Prgr.: English:** 14.00–15.00, 02.00–03.00. – **F.PL.:** Prgr.s in French.
23) Zempoala 77, Col Narvarte, Mexico 12, D.F. – **ANN.:** "XERH, 1500 kc/s onda larga, y XEHH 11880 kc/s onda corta, transmitiendo desde la muy noble y leal Ci. de Mexico".
24) P.O. Box 12177, Mexico D.F. – **ANN.:** "XEMC y XESC, El Heraldo de las Telas de Junco".

Medium Waves:

25) **R. Mexicana de Merida,** Calle 64 No. 526, Merida, Yuc.
26) **R.dif. XELQ,** Morelos Nte. No. 68, Morelia, Mich.
27) **R.dif. XETJ,** Av. Lerdo de Tejada 1564, Torreón, Coah.
28) **R.dif. XEAV,** Independencia 42 Norte, Guadalajara, Jal.
29) **Pregonero del Estado de Chihuahua,** Libertad 1302, Altos, Chihuahua. – **D. Prgr.:** 13.00–01.00 (5 kW), 01.00–06.00 (0.25 kW).
30) **R.dif. XEMU,** Domicilio Carranza 3, Piedras Negras, Coah.
31) **R.dif. XEFD,** Carretera a Matamoros, Rio Bravo, Tams.
32) **Cia. Mexicana de R.difusion,** Morelos 58, Mexico D.F.

33) **R. Acapulco**, Morelos 3, Acapulco, Gro. – **D. Prgr.**: 24 h.
34) **Dif. del Norte**, Av. Juarez 1424, Torreón, Coah. – **D.** 13.00–05.00.
35) **La Voz de la Peninsula**, Calle 56 No. 508, Mérida, Yuc.
36) **R.dif. Coahuila**, Av. Carranza 38 y Zaragoza, Sabinas, Coah.
37) **R. Guasave**, Zaragoza 45 Altos, Guasave, Sin.
38) **La Emis. de la Juventud**, Balderas 32, Mexico D.F. – **D. Prgr.**: 12.30–06.00.
39) **Emis. Incorporadas de Monterrey**, 5 Mayo Ote. 112, Monterrey.
40) **R.dif. XEFU**, Hidalgo 36, Cosamaloapan, Ver.
41) **R.dif. XETS**, 4a. Calle Oriente 44, Tapachula, Chis.
42) **La Voz del Comercio de Zamora**, 5 de Mayo 285 Sur, Zamora, Mich. – **D. Prgr.**: 24 h.

43) **Vocero Mexicano**, Av. Insurgentes 323, Mexico D.F.
44) **R.dif. XEFJ**, Benito Juárez 86, Teziutlán, Pue.
45) **R. Impulsora del Centro**, Pasaje de las Tullerías 1, León, Gto.
46) **R.dif. XEAC**, Esp. Lerma y Bravo, Col Marrón, Tijuana, B.C.
47) **R.dif. XEAK**, Apt. 100, Tijuana, B.C. – **D. Prgr.**: 24 h. **Eng.**: 12.00–10.00. – **ANN.**: "XEAK The Mighty 690". – **V.** by QSL-card.
48) **R.dif. XEOC**, Av. Chapultepec 471-A, Mexico, D.F.
49) **R.dif. XEON**, Jardín Sto. Domingo, Tuxtla Gutierrez, Chis.
50) **R.dif. XEHJ**, Av. Juárez 595–2, Guadalajara, Jal.
51) **R. Exitos (XERC), R. Centro (XEQR)**, Articulo 123, Mexico D.F. **D. Prgr.**: 13.30–09.30.

52) **R.dif. XEAN**, Ninos Héroes 245, Ocotlán, Jal.
53) **R.dif. de P. Negras**, Calle 21 y "K", Ci. Juárez, Chih.
54) **R. Metropolitana**, Paseo Reforma 139, Mexico, D.F.
55) **R.dif. XEBA**, Pino Suárez 183, Guadalajara, Jal.
56) **R.dif. XETQ**, Colón y Sur 3 Altos, Orizaba, Ver.
57) **R.dif. 860**, Unidad Modela Creepo 73–3, Guadalajara, Jal.
58) **R.dif. XEMO**, Durango 10, Tijuana, B.C.
59) **R.dif. XEBM**, Jardín Hidalgo 15, San Luis Potosí, S.L.P.
60) **R.dif. XEWV**, Av. Madero 1208–1, Mexicali, B.C.
61) **R.dif. XEGM**, Av. "G" 185, Tijuana, B.C.
62) **R.dif. XEK**, Apt. 99, Nuevo Laredo, Tams. – **D.Prgr.**: 12.00–04.00
63) **R.dif. XEDF**, Gen. González 1609, Nuevo Laredo, Tams.
64) **Mexican Broadc. Co.**, Constitución 402, Ci. Juárez, Chih.
65) **R.dif. El Gallo**, Calle 9a 95 Matamoros, Tams.
66) **Televicentro**, Av. Chapultepec 18, Mexico. – **D. Prgr.**: 12.00–06.00.
67) **R. La Piedad**, Av. Madero 24, La Piedad, Mich. – **D. Prgr.**: 12.00–05.30. – **V.** by QSL-card. – **F.PL.**: 25 kW, 2 FM st.
68) **R.dif. XENR**, Domicilio Comocido, Nueva Rosita, Coah.
69) **Impulsora Moderna del Radio**, Calle Muelle y Salvador Diaz M, Tampico, Tams.

70) **Gob. del Estado de Nayarit**, Parque Juan Escutia, Tepic, Nay.
71) **El Pregonero del Norte**, 5 de Mayo Ote. 650, Monterrey, N.L. – **D. Prgr.**: 11.45–06.00. – **V.** by letter.
72) **R.dif. XECL**, Av. Madero 621, Mexicali, B.C.
73) **R.dif. XEHL**, Sector Hidalgo, Calle 10–183, Guadalajara, Jal.
74) **R.dif. XED**, Av. Madero y Azueta, Mexicali, B.C.
75) **La Voz de Norteamérica**, Hidalgo 426, Monterrey N.L. (for USA listeners: R. XEG, Fort Worth 11, Texas). – **D. Prgr.**: 24 h. – **Spanish**: 13.00–22.00. – **English**: 22.00–13.00. – **ANN.**: "This is R. America (or "The Voice of North Am.") Station XEG, the friendly 1050 spot on your radio dial". – **V.** by letter or QSL-card.
76) **Interamericana de Radio**, California Desp. 2, Rosarito, B.C.
77) **R. Laredo**, Matamoros y Pino Suárez, Altos del Bco., N. Laredo, Tams.

78) **R.dif. XETR**, Carretera Mex. – Laredo 29 Sur., Ci. Valles, S.P.L.
79) **R. Televisora Siglo XX**, Porfirio Díaz 392, Reynosa, Tams.
80) **R. Guadalajara**, Independencia 42 Nte., Guadalajara, Jal.
81) **Capital Broadc. System**, Ave. Reforma 400, Mexico D.F. – **D. Prgr.**: 12.30–09.00. **English**: 13.30–15.00, 00.30–04.00. – **ANN.**: "This is XEL, Radio Capital, Mexico City"... "XEL, R. Capital desde la capital de Mexico".
82) **R.dif. XECV**, Fco. I, Madero 35, Ci. Valles, S.L.P.
83) **La Voz de Cordoba**, Av. Uno 135, Cordoba, Ver. – **D. Prgr.**: 13.00–06.00. – **V.** by letter.
84) **R.dif. XEDA**, Dolores 10, Mexico D.F.
85) **La Voz de la Laguna**, Cepeda Sur 409, Torreón, Coah.
86) **R.dif. XEFH**, Av. Panamericana 267, Agua Prieta, Son.
87) **R.dif. XEHV**, Aquiles Serdán 126, Veracruz, Ver.
88) **R.dif. XEPO**, Venustiano Carranza 4, San Luis Potosí, S.L.P.
89) **R. Horizontes**, San Juan de Letrán 130, Mexico D.F. – **D. Prgr.**: 13.00–06.00.

90) **R.dif. XEBO**, Berriozabal 8, Irapuato, Gto.
91) **R.dif. XEFC**, Calle 64 No. 498, Mérida, Yuc.
92) **R. Laguna**, Valdés Carrillo 223 Sur, Torreón, Coah.
93) **R.dif. XETM**, Av. Fco. I, Madero 26 Altos, Naco, Son.
94) **R.dif. XEA**, Calle 55 No. 6, Campeche, Cam.
95) **R.dif. Com. Sonorense**, Elias 17 Altos, Nogales, Son. – **D. Prgr.**: 12.00–05.00. – **ANN.**: "La Voz de la Costa Occidental". – **V.** by QSL-card. – **F.PL.**: Increase to 5 kW.
96) **R.dif. XEMR**, Galaena Norte 1055, Monterrey, N.L.
97) **R. Femenina**, Morelos 58, Mexico D.F. – **D. Prgr.**: 13.00–06.00. **"La Hora Internacional"**: D. 02.00–03.00. – **ANN.**: "XEMX, R. Femenina, de mujer a mujer en Mexico".
98) **R.dif. XERS**, Av. Hidalgo 1404 Sur, Gómez Palacio, Dgo.
99) **Mexican Broadc. Co.**, Ojinaga 4106, Chihuahua, Chih.
100) **R.dif. El Gallo**, Pedro José Méndez 154 Ote, Reynosa, Tams.
101) **R.dif. XETL**, Av. Independencia y Correo Viejo, Tuxpan, Ver.
102) **R. Impulsora de Occidente**, Calle de Pedro Loza 31, San Pedro Tlaquepaque, Jal.
103) **R. Sinfonola**, Ayuntamiento 101, Mexico 1, D.F. – **D. Prgr.**: 12.00–07.00. – **V.** by QSL-card. – **F.PL.**: 5 kW 1959.
104) **R.dif. XEF**, 20 de Noviembre 504, Ci. Juárez, Chih.
105) **R. Tarnava**, Padre Mier 248 Ote. Altos, Monterrey, N.L.
106) **R.dif. XEEW**, Sexta y Guerrero, Matamoros, Tams.
107) **R. Irapuato**, Tres Guerras 23, Irapuato, Gto. – **D.** 13.00–05.00.
108) **R.dif. XEXX**, Revolución y Octava, Tijuana, B.C.
109) **R.dif. Mexicana**, Av. Venustiano Carranza 22, San Luis Potosí.
110) **El Heraldo Fronterizo**, Alvaro Obregón 569, Ci. Miguel Alémán.
111) **R.dif. XELL**, Av. Independencia 62, Veracruz, Ver.
112) **R.dif. XEOX**, Veracruz 63, Ci. Obregón, Son.
113) **R.dif. XELX**, Av. Revolución 194, Zitácuaro, Mich.
114) **R.dif. XEYC**, Av. 16 de Sept. y Progreso, Ci. Juárez, Chih.
115) **R.dif. XEAU**, Av. Carranza 1638, Tijuana, B.C.
116) **El Heraldo del Chocolate Abuelita**, Rébsamen 241, Col. Narvarte, Mexico, D.F. – **D. Prgr.**: 24 h.
117) **Radiofonica de Poza Rica**, Calle 6 Norte 2 y Av. Central Ote, Poza Rica, Ver.
118) **R.dif. XEGD**, Av. Gen. M. Herrera 79-B, Hidalgo del Parrel, Chih.
119) **R.dif. XEBG**, Av. "C" 255 Altos, Tijuana, B.C.
120) **R. 155**, Carrillo Puerto 6, Xalapa, Ver. – **D. Prgr.**: 12.00–06.00. – **ANN.**: "R. 155 en el Estado de Veracruz desde Xalapa, Jardín de Mexico". – **V.** by letter. – **F.PL.**: FM and TV-stations.
121) **R. Comercial de Baja California**, Calle "C" 137, Mexicali, B.C.
122) **R.dif. de Coahuila**, Prolongación Guerrero s/n, Camino de San Carlos, Ci. Acuna, Coah.
123) **R. Pacifico**, Matamoros, Edif. Combate D.1, Hermosillo, Son.
124) **R.dif. XENQ**, Plaza de la Constitución, Tulancingo, Hgo.

★ SAINT PIERRE ET MIQUELON (French) ★

L.T.: GMT÷4 h. (Su GMT÷3h) – **L.**: French.

RADIO ST. PIERRE (Go.)

ADDR.: Gouverneúr des Iles St. Pierre et Miquelon, Saint Pierre. – **D.PRGR.**: 570 kc/s 526 m 1 kW: 15.30–17.00, 23.30 – 02.00. – **N.**: W. 16.20, 24.00.

★ UNITED STATES OF AMERICA ★

L.T.: See World Time Table. – **L.**: English. – **Rcvrs.**: 194.600.000.

VOICE OF AMERICA (Go.)

"THE VOICE OF AMERICA is operated by the Broadcasting Service of the United States Information Agency. The VOA seeks to promote an increased understanding of the United States among the peoples of the world and to strengthen cooperative international relations.

ADDR.: Voice of America, U.S. Information Agency, 330 Independence Av., Washington 25, D.C. – **L.P.**: Dir. US Information Agency: G. V. Allen. Dir. Broadc. Sce.: H. Loomis. Radio Mgr.: B. Zorthian. TV Mgr.: A. Moore (Acting). Engineering Mgr.: E. Martin.

STATIONS:

KCBR (50/100/200 kW), Columbia Broadcasting System, Inc., Delano, California.
KNBH (50/100/200 kW), National Broadcasting Company, Inc., Dixon, California.
WBOU (50 kW), National Broadcasting Company, Inc., Bound Brook, New Jersey.
WDSI (50 kW), Columbia Broadcasting Company, Inc., Brentwood, New York.
WDSI (50 kW), Columbia Broadcasting Company, Inc., Wayne, New Jersey.
WGEO (25/50/100 kW), General Electric Company, Schenectady, New York.
WLWO (110 kW), Crosley Broadcasting Corporation, Bethany, Ohio.

Station	kc/s	m	Station	kc/s	m	Station	kc/s	m
KNBH	6020	49.83	KCBR	11830	25.36	KNBH	15250	19.67
KNBH	6145	48.82	WDSI	11830	25.36	WLWO	15250	19.67
KCBR	6185	48.50	WLWO	11850	25.32	WBOU	15270	19.65
KNBH	9515	31.53	KNBH	11870	25.27	WDSI	15270	19.65
KCBR	9570	31.35	WBOU	11870	25.27	KNBH	15290	19.62
KNBH	9590	31.28	KNBH	11900	25.21	WLWO	15290	19.62
WDSI	9590	31.28	WLWO	11970	25.06	KCBR	15315	19.59
KCBR	9600	31.25	WBOU	15150	19.80	WBOU	15325	19.58
WDSI	9650	31.09	WLWO	15160	19.79	WBOU	15330	19.57
KCBR	9700	30.93	WLWO	15165	19.78	WGEO	15330	19.57
WBOU	11710	25.62	KCBR	15210	19.72	WLWO	15330	19.57
WLWO	11810	25.40	WDSI	15210	19.72	WDSI	15350	19.54

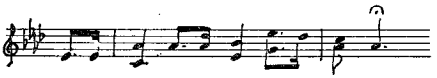
USA

Station	kc/s	m	Station	kc/s	m	Station	kc/s	m
WLWO	17710	16.94	WBOU	17880	16.78	WLWO	21610	13.88
KNBH	17760	16.89	KCBR	21460	13.98	WDSI	21650	13.86
WGEO	17760	16.89	WLWO	21485	13.96	WDSI	21690	13.83
KCBR	17770	16.88	WDSI	21500	13.95	WLWO	21730	13.81
WBOU	17780	16.87	WDSI	21505	13.95	KCBR	21740	13.80
WLWO	17795	16.80	WLWO	21515	13.94	KCBR	25630	11.70
WDSI	17830	16.83	WBOU	21540	13.93	WBOU	25950	11.56
WLWO	17830	16.83	WBOU	21570	13.91	KNBH	25990	11.54
KCBR	17850	16.81	WGEO	21590	13.90	WBOU	26040	11.52

RELAY STATIONS:
For frequencies of the relay stations, refer to the individual countries: Germany, Greece, Dodecanese Islands, Great Britain, Tangier, Ceylon, Hawaii, Ruykyu Islands, and Philippines.

ANNOUNCEMENT:
Each program ends with these words spoken in English: "This program has come to you from the United States of America." The station identification is then announced in English.

INTERVAL SIGNAL:
Choir of brass playing a 10 note version of "Columbia, the Gem of the Ocean." This musical symbol is played at the beginning of a transmission, during station breaks, and at the conclusion of a transmission. At the beginning of a transmission the sign on announcement is followed by 3 minutes of musical symbol made up of alternate 5 seconds music and 5 seconds silence.



VERIFICATION by QSL-card. No return postage required

To Europe, Near- and Middle East

Language	Time	U.S. m.b.	Relay Bases
ALBANIAN	05.30–06.00	—	31
	20.00–20.30	13, 16	16, 19, 25, 31, 379
ARABIC	03.30–04.00	16, 19, 25, 31	—
	04.00–04.30	—	19, 31, 41, 238
	04,30–05,30	—	19, 25, 31, 41, 238
	05.30–05.45	19, 25	19, 25, 31, 41, 238
	05.45–06.00	—	19, 25, 31, 41, 238
	17.00–17.30	—	19, 25, 31, 41, 238
	17.30–18.00	13, 19	19, 25, 31, 41, 238
	18.00–18.30	—	19, 25, 31, 41, 238
	18.30–18.45	13, 19	19, 25, 31, 41, 238
	18.45–19.30	—	19, 25, 31, 41, 238
	19.30–19.45	13, 19	19, 25, 31, 41, 238
	19.45–20.30	—	19, 25, 31, 41, 238
	20.30–21.00	13, 19	19, 25, 31, 41, 238
ARMENIAN	14.30–15.00	11, 13, 16	13, 16, 19, 25
BULGARIAN	04.15–04.30	16, 19, 25, 31	16, 19, 25, 31, 41
	16.30–17.00	11, 13, 16	13, 16, 19, 25
	18.00–18.30	—	379
	19.30–20.00	11, 13, 16, 19	16, 19, 25, 41, 49, 379
CZECH & SLOVAK	05.30–06.00	16, 19, 25, 31	16, 19, 25, 31, 41
	20.30–21.00	13, 16	16, 19, 25, 31, 41
	22.30–23.00	13, 16, 19	16, 19, 25, 31, 41, 251
ESTONIAN	02.00–02.30	—	16, 19, 25, 31, 41
	18.30–19.00	11, 13, 16	13, 16, 19, 25
	20.00–20.30	—	251
FRENCH	04.45–05.00	—	41, 49, 251
	05.15–05.30	—	25, 31
	05.45–06.00	—	49, 251
	20.00–20.30	11, 13, 16, 19	—
	21.30–21.45	13, 19	16
	22.30–22.45	—	16, 25, 31, 1734
GEORGIAN	14.00–14.30	11, 13, 16	13, 16, 19, 25
GERMAN	17.15–17.30	11, 13, 16	—
	19.15–19.30	11, 13, 16	1734
	21.45–22.00	13, 19	16
	22.45–23.00	—	16, 25, 31, 1734
GREEK	17.15–17.30	13, 19	16, 19, 25, 379
	21.00–21.15	13, 19	16, 19, 379
HUNGARIAN	06.00–06.30	16, 19, 25, 31	16, 19, 25, 31, 41
	18.30–19.00	11, 13, 16, 19	13, 16, 19, 25, 31, 41, 379
	20.30–21.00	—	1734
	21.15–21.30	—	19, 25
	21.30–22.00	13, 16, 19	16, 19, 25, 41, 49
	22.30–23.00	—	379
	23.00–23.30	—	16, 19, 25, 251
ITALIAN	15.30–15.45	—	RAI
LATVIAN	02.00–02.30	—	16, 19, 25, 31, 41

To Europe, Near, and Middle East

Language	Time	U.S. m.b.	Relay Bases
	17.30–18.00	11, 13, 16	13, 16, 19, 25
	20.30–21.00	—	251
LITHUANIAN	03.00–03.30	—	16, 19, 41
	16.30–17.00	11, 13, 16	13, 16, 19, 25
	18.30–19.00	—	251
PERSIAN	16.00–16.30	11, 13, 16	13, 16, 238
	16.30–17.00	—	13, 16
	17.00–18.00	—	16
POLISH	05.00–05.30	16, 19, 25, 31	16, 19, 31, 41
	19.30–20.00	11, 13, 16	16, 19, 25, 31, 41, 251 1734
	21.30–22.00	13, 16, 19	16, 19, 25, 31, 41, 251, 1734
	23.00–23.30	—	16, 19
RUMANIAN	04.00–04.15	16, 19, 25, 31	16, 19, 25, 31, 41
	17.30–18.00	11, 13, 16, 19	13, 16, 19, 25, 31, 379
	20.30–21.00	11, 13, 16, 19	16, 19, 25, 31, 49, 379
RUSSIAN	02.30–03.00	16, 19, 25, 31	16, 19, 25, 31, 41
	03.30–04.00	—	16, 19, 25, 31, 41
	04.30–05.00	—	16, 19, 25, 31
	06.30–07.00	—	13, 16, 19, 25, 31, 41
	15.00–15.30	11, 13, 16	13, 16, 19, 25
	16.00–16.30	—	13, 16, 19, 25
	17.00–17.30	—	13, 16, 19, 25, 31
	18.00–18.30	11, 13, 16	13, 16, 19, 25, 31
	19.00–19.30	—	16, 19, 31, 41
	20.00–20.30	11, 13, 16	16, 19, 25, 31, 41, 49
	21.00–21.30	—	16, 19, 25, 31, 41, 49
	22.00–22.30	13, 16, 19	16, 19, 25, 31, 41, 49
SERBO-CROAT	04.30–04.45	16, 19, 25, 31	41, 49, 251
	05.00–05.15	—	25, 31
	05.30–05.45	—	49, 251
	19.00–19.30	11, 13, 16, 19	16, 19, 25, 251, 379
	21.00–21.15	13, 16, 19	16, 19, 25, 31, 251
	22.15–22.30	—	379
SLOVENE	21.15–21.30	13, 16, 19	16, 19, 25, 251
TURKISH	16.30–17.00	13, 19	19, 31, 41, 238
	17.30–18.00	—	16
UKRAINIAN	03.00–03.30	—	16, 19, 25, 31
	15.30–16.00	11, 13, 16	13, 16, 19, 25

To India and Pakistan

Language	Time	U.S. m.b.	Relay Bases
BENGALI (EAST)	16.00–16.30	—	19
BENGALI (WEST)	13.30–14.00	25, 31, 49	19
HINDI	15.30–16.00	19, 25, 31, 49	25, 41
	16.30–17.00	—	19
MALAYALAM	14.30–15.00 (Tues., Thurs., Sat.)	11, 13, 16	11, 13, 25, 41
TAMIL	14.30–15.00 (Sun., Mo., Wed., Fri.)	11, 13, 16	11, 13, 25, 41
URDU	13.30–14.00	11, 13, 16	25, 41

To Far East

Language	Time	U.S. m.b.	Relay Bases
AMOY	10.00–10.30	25, 31, 49	31
	11.00–11.30	—	25, 31
	13.30–14.00	—	19, 41, 263
	14.30–15.00	—	19, 31
BURMESE	11.00–11.30	25, 31, 49	19, 41
	13.00–13.30	—	19, 41
	14.00–14.30	25, 31, 49	19, 41, 263
CANTONESE	12.00–12.30	25, 31, 49	19, 25, 31, 41, 49, 263
	13.00–13.30	—	25, 31
	14.00–14.30	—	19, 25, 31
	15.00–15.30	—	19, 31, 41, 263
	23.30–00.00	11, 13, 16	19, 25
INDONESIAN	11.00–12.00	25, 31, 49	19, 49
	13.00–14.00	—	19, 49
JAPANESE	01.30–02.00	11, 13	—
	10.30–11.00	—	41
	11.30–12.00	—	41
	21.30–22.00	11, 13, 16	19, 25
KOREAN	13.00–13.30	25, 31, 49	19, 254
	14.00–14.30	—	19
	22.30–23.00	11, 13, 16	19, 25
MANDARIN	00.30–01.00	—	19, 25
	11.30–12.00	25, 31, 49	19, 25, 31, 41, 254, 263, 326

To Far East

Language	Time	U.S. m.b.	Relay Bases
	12.30–13.00	—	19, 25, 31, 49, 254
	13.30–14.00	—	19, 25, 41, 254, 263
	14.30–16.00	25, 31, 49	19, 25, 31, 254
	15.30–16.00	—	19, 25, 31, 254
	22.00–22.30	11, 13, 16	19, 25, 31
	23.00–23.30	—	19, 25
RUSSIAN	00.30–01.00	—	19, 25, 254
	09.30–10.00	25, 31, 49	19, 25, 41
	12.00–12.30	—	19, 25, 254
	15.00–15.30	19, 25, 31, 49	19, 25, 254
UKRAINIAN	10.30–11.00	25, 31, 49	19, 25, 254
VIETNAMESE	00.00–00.30	11, 13, 16	19, 25
	12.30–13.00	25, 31, 49	19, 41, 263
	15.30–16.00	—	19, 41, 263

Prgr's. in English (World Wide Schedule)

English prgrs. are news and comment on the h., exc. as otherwise noted.

	Times	U.S. m.b.	Relay Bases
TO EUROPE, M.EAST, EA.AFRICA	03.00–03.30	16, 19, 25, 31	19, 25, 31
	04.00–04.30	—	19, 25, 49, 251
	05.00–05.30	—	19, 25, 31, 49, 251
	06.00–06.30	19, 25	25, 31, 41, 49, 238, 251
	07.00–07.30	—	16, 19
	08.00–08.30	—	13, 16, 19
	13.00–13.30	11, 13, 16	11, 13, 16, 19
	14.00–14.30	11, 13, 16	11, 13, 19
	15.00–15.30	—	11, 13, 19
	16.00–16.30	13, 19	11, 19
	17.00–18.00	13, 19	13, 19, 31, 49, 251, 1734
	18.00–18.30	11, 13, 16, 19	19, 31, 49, 251, 1734
Univ. Of The Air	18.30–19.00	13,19	19, 31, 49, 1734
	19.00–19.15	11, 13, 16, 19	19, 31, 49, 1734
Music USA	19.15–20.00	13, 19	19, 25, 31, 49
	20.00–20.15	13, 19	19, 31, 49, 1734
Music USA	20.15–21.00	13, 19	19, 25, 31, 49
	21.00–21.30	13, 19	19, 31, 41, 238, 1734
Univ. Of The Air	21.30–22.00	—	19, 25, 31, 49
	22.00–22.30	—	19, 25, 31, 49, 251, 1734
	23.00–23.30	13, 16, 19	25, 31, 1734
Music USA	23.30–00.15	—	1734
TO WEST AFRICA			
	05.00–05.30	19, 25	
	06.00–06.30	19, 25	
	07.00–07.30	19, 25	
	17.00–18.30	13, 16	
Univ. Of The Air	18.30–19.00	13, 16	
	19.00–19.15	13, 16	
Music USA	19.15–20.00	13, 16	
	20.00–20.15	13, 16	
Music USA	20.15–21.00	13, 16	
	21.00–21.30	13, 16	
Univ. Of The Air	21.30–22.00	13, 16	
	22.00–22.30	13, 16	
TO FAR EAST			
	00.00–00.30	—	16, 19
	01.00–01.30	11, 13, 16	16, 19, 25
	02.00–02.30	—	16
	09.00–09.30	25, 31, 49	19, 25, 31, 41
	10.00–10.30	—	19, 25, 31, 41
	11.00–11.30	—	19, 25, 31, 41, 254, 326
	12.00–13.00	25, 31, 49	19, 25, 31, 41, 326
	13.00–13.30	25, 31, 49	19, 25, 31, 41, 326
Univ. Of The Air	13.30–14.00	25, 31, 49	19, 25, 31, 41, 326
	14.00–14.15	25, 31, 49	19, 25, 31, 41, 49, 254, 326
	14.15–14.30	25, 31, 49	25, 254
Music USA	14.15–15.00	—	19, 25, 31, 41, 49, 326
	15.00–15.15	—	19, 25, 31, 41, 49, 326
Music USA	15.15–16.00	—	19, 25, 31, 41, 49, 326
	16.00–16.30	19, 25, 31, 49	19, 25, 31, 41, 49, 254, 263, 326
	21.00–21.30	13, 16	19, 25, 41
	22.00–22.30	—	19, 25
	23.00–23.30	13, 16	19, 25, 41
TO SOUTH ASIA			
	01.00–01.30	—	16, 25
	02.00–02.30	—	16, 25
	03.00–03.30	—	25
	12.00–13.00	11, 13, 16	11, 13, 25, 41

Prgr's. in English (World Wide Schedule)

	Times	U.S. m.b.	Relay Bases
	13.00–13.30	11, 13, 16	19, 25, 41
	14.00–14.15	11, 13, 16, 25, 31, 49	19, 25, 41
	14.15–14.30	11, 13, 16	25, 41
Music USA	14.15–15.00	—	19
	15.00–15.15	—	19, 25, 41
	15.15–15.30	—	25, 41
Music USA	15.15–16.00	—	19
	16.00–16.30	13, 19	25, 41
Univ. Of The Air	16.30–17.00	—	25, 41
	17.00–18.00	13, 19	25, 41
	23.00–23.30	—	25

To Latin America

Times	U.S. m.b.
00.00–00.30	16, 19
01.00–01.30	16, 19
23.00–23.30	19

ARMED FORCES RADIO and TELEVISION SERVICE

ADDR.: Office of Armed Forces Information and Education, Washington 25, D.C.

This office exercises overall policy control of the Armed Forces Radio and Television Service. The mission of AFRTS is to keep U.S. sce. men and women stationed outside the States the best informed service personnel in the world on current events. **All broadcasts are in English.** News, sports and other timely matter is beamed overseas directly by twelve powerful tr. on the U.S. Atlantic and Pacific coasts. These s.w. broadcasts serve the overseas radio stations, which rel. them locally. Prgrs. other than news and locally produced prgrs. are derived directly from the U.S. Commercial Networks. N. is compiled directly from the wires of A.P., and U.P.I. (United Press International). AFRS presents regular s.w. prgrs. from both Los Angeles and New York City, using the transmitters of the V.O.A.

EUROPEAN SERVICE (from New York).

ADDR.: Armed Forces Press, Radio and Television Service, 250 West 57th Str., New York 19, N.Y. – **L.P.:** Capt. H. A. Lincoln, U.S. Navy, Officer in Charge A. F. Press, Radio.

D. PRGR.: 50 kW. – Period: All year.

Call	kc/s	m	Target area	h. of tr.
MUN	11830	25.36	M. East	15.15–22.45
WBOU6	15270	19.60	Europe	17.30–22.45
WRUL2	15380	19.51	Greenland	17.30–22.45
WRUL3	17710	16.94	Caribbean	17.30–22.45
WBOU5	17780	16.87	Europe	15.15–22.45
WDSI	21650	13.91	Europe	15.15–22.45

N.: D. 15.30, 22.30. Mo.-Fri. also 16.30, 17.30, 18.30, 19.30, 20.30, 21.30. – **AFRS Panorama:** Sat./Sun. 16.00 22.15.

ANN.: "This is the United States Armed Forces Radio Service in New York. The Voice of Information and Education." – V. by QSL-card. – Prgr. sched. published seasonally are available on request by letter.

PACIFIC SERVICE (from Los Angeles).

ADDR.: U.S. Armed Forces Radio & Television Service, Short Wave Program Branch, 1016 No. McCadden Place, Los Angeles 38, Cal. – **L.P.:** Officer in Charge: Lt. Col. J. H. Rose, USAF. Deputy Officer in Charge: R. de la Torre. Chief, Prgr. Sce.s Division: Lt. Col. G. Boepple, USA. Chief, Technical-Logistics Sce's Division: Major F. May, USAF. Chief, Shortwave Prgr. Branch: J. J. Brown, Jr.

DAILY PRGR.: 01.00–15.00.

Call	kc/s	m	kW	Beam	h. of tr.
KCBR-5	9570	31.55	100	Alaska/Aleutians	08.30–12.00
KCBR-2	9700	30.93	50	Japan/Korea	07.30–15.00
KCBR-3	11830	25.36	50	Philippines/Marianas	07.30–15.00
KCBR-5	15210	19.72	100	Philippines/Marianas	06.30–08.00
KCBR-4	15315	19.59	100	Alaska/Aleutians	02.00–08.15
KCBR-5	15315	19.59	100	Caribbean	12.15–15.00
KCBR-3	17850	16.81	50	Philippines/Marianas	01.00–07.00
KCBR-2	21460	13.98	50	Japan/Korea	01.00–07.00
KCBR-1	21740	13.80	200	Philippines/Marianas	02.00–06.00

Currently KCBR-5 is off the air for an indifinite period undergoing modification. When it returns to operation our schedule will be as above. Meanwhile KCBR-4 has shortened its 02.00–08.15 transmission on 15315 to 02.00–06.30 and is carrying on the three broadcast periods normally handled by KCBR-5. Those hours, beams and frequencies are unchanged, except that the sign-on on 15210 kc will occur at 07.00 for this time rather than at 06.30.

Additional: Sat. only KCBR-2 21460 kc/s, KCBR-3 17850 kc/s: 22.00–01.00.

N.: Hourly from 01.00–14.00 plus a news roundup at 14.45. **Conference period:** D. 01.05, 07.05. – **Armed Forces Digest:** Tues.-Sat.:

01.45–02.00, 08.15–08.30. **Football:** Sun. morning and afternoon. **ANN.:** At the end of prgr.: "This is AFRTS Shortwave at Los Angeles." Hourly: "This is the United States Armed Forces Radio and Television Service, the voice of information and education, broadcasting on VOA tr. KCBR at Delano, Cal." **V.** by QSL-card. – Freq's are announced thirty minutes past each hour.
PRGR. SCHED.: 3 times per year. May be obtained by request to the addr.: AFTRS Shortwave Program Branch.

A.F.R.T.S.'s OUTLETS: BROADCASTING

Total outlets: 181. Radio 80, TV with studios 24, FM 2, Carrier Current 20, Audio System 45, TV rel. 5, s.w. 5.
Abbreviations: A: Army – AFKN: American Forces Korea Network – AN: Alaska Network. – FEN: Far East Network – N: Navy – RCAF: Royal Canadian Air Force – AF: Air Force – RCA: Royal Canadian Army. A = Army Fo.: Fort – [1]) Carrier Current.

The greater majority of the stations operate from 06.00–24.00 L.T.

RADIO-OUTLETS:

	sce.	kc/s	kW
ALASKA			
Adak	N	570	0.25
Champion	AF	570	0.25
Elmendorf	AF	850	0.25
Eielson	AF	790	0.25
Fo. Greely	A	980	0.25
Fo. Richardson	A	1360	0.25
King Salmon	AF	790	0.25
Kodiak	N	960	0.25
Ladd	AF	620	0.25
Nome	AF	590	1
Whittier	A	980	0.25
CANADA			
Fo. Churchill	A	1230	0.1
CARIBBEAN AREA			
San Juan	A	1470	0.05
Fo. Clayton	A	790	5
Fo. Gulick	A	1420	1
Trinidad	N	600	0.25
Ramey	AF	780	0.05
Guantanamo	N		0.25
NORTH AFRICAN AREA			
Libya			
Tripoli	AF	1510	1
Morocco			
P. Lyautey	N	1512.5	0.1
Sidi Slimane	AF	1594	0.1
Nouasseur	AF	1594	0.1
Rabat	AF	1594	0.1
Ben Guerir	AF	1594	0.1
MIDDLE EAST AREA			
Eritrea			
Asmara	A	1500	0.25
Saudi Arabia			
Dhahran	AF	1215	0.25
Diyarbakir	AF	1570	0.25
Crete			
Iraklion	AF	1570	0.25
Iran			
Teheran	A	620	0.25
EUROPE			
(see Germany)			
FAR EAST AREA			
Japan (FEN[1]) = Relay.			
Tokyo	AF	810	10
Tokyo s.w.	AF	**6160 / 11750 / 15257**	**10**

	sce.	kc/s	kW
Tokyo s.w.	AF	**3800**	0.25
Hokkaido	AF	1590	0.25
Misawa	AF	1510	0.25
Nagoya[1])	AF	1510	1
Iwakuni	AF	1510	1
Kyushu	AF	1550	2.5
Sasebo	AF	1570	0.25
Nara[1])	AF	1510	0.25
Ashiya[1])	AF	1590	0.25
Iwo Jima	AP	1500	0.1
Ryukyu Isl.			
Okinawa	AF	650	1
So. Korea (AFKN[1]) = Relay.			
Taegu	A	900	1
Pusan	A	1250	1
Seoul	A	560	5
Seoul s.w.	A	**6875**	**0.25**
Uijongbu[1])	A	1150	0.25
Kuma-Ri	A	1400	1
Kunsan	A	1440	0.25
Osan	A	1060	0.25
Taiwan (see also Taiwan)			
Taiwan	N	1560	1
Taiwan s.w.	N	**7215**	**1**
Philippines			
Clark AFB	AF	1250	1
Subic Bay	N	1520	0.05
Sangley Peint	N	1300	0.50
NORTH ATLANTIC	sce.	kc/s	kW
Argentia	N	1480	0.05
Canada			
Goose Bay	RCAF		
N. Foundland			
St. Johns	AF	1480	0.05
Stephenville	AF	1490	0.05
Azores			
Terceira	AF	1500	0.25
Greenland			
Narssarssuak	AF	900	1
Sondrestrom	AF	1420	0.25
Thule AFB	AF	1425	0.05
Iceland			
Keflavik	AF	1484	0.25
PACIFIC AREA			
Eniwetok, M. I.	AF	1385	0.25
Johnston Isl.	AF	1250	0.25
Kwajalein	N	1140	0.25
Midway Isl. N		900	0.25

WORLD WIDE BROADCASTING SYSTEM

ADDR.: One East 57th Street, New York 22, N.Y. – **Cable:** "Shortwave". – **L.P.:** Pres. and Dir. Gen.: Walter S. Lemmon. Dir. English & Scandinavian Prgr.: J. Fillinger. Dir. Spanish Prgr.: G. Caram. Dir. Portuguese Prgr.: G. Coelho.

FOREIGN SERVICE

STATIONS: WRUL – 1 (50 kW), – 2 (50 kW), – 3 (50 kW), – 4 (20 kW), – 5 (80 kW).

kc/s	m	kc/s	m	kc/s	m	kc/s	m
9530	31.48	11780	25.47	15380	19.51	17755	16.90
9585	31.30	15200	19.74	15415	19.46	17845	16.81
9675	31.01	15220	19.71	17710	16.94	21460	13.98
11710	25.62	15230	19.70	17750	16.90	21500	13.95

EUROPEAN SCE.: In **English, Swedish, Norwegian:** Mo.-Fri. 20.30–21.45, Sun. 19.00–21.00 in 31, 25, 19, 16, or 13 m.b. Summer one h. earlier.
N.: in English: 21.15. – **Norwegian:** Tues., Fri. 20.30–20.45. – **Swedish:** Mo., Wed. 20.30–20.45, Thurs. 21.00–21.15. **DX-Prgr.:** Mo. – **Sunday Religious Features.**
LATIN AMERICAN SERVICE: D. 22.30–01.45 in 31, 25, 19, 16 or 13 m.b.
English: 23.00–00.15. – **Portuguese:** 22.30–23.00. – **Spanish:** 00.15–01.45. Uses 2 tr. for P. Sce., 3 for E. Sce., 4 for Sp. Sce.
ANN.: "This is the World Wide Broadcasting System, Radio Boston international radio station WRUL speaking for freedom from its studios in New York City, U.S.A." – **INT.-SIG.:** New World Symphony (by Dvorak). – **V.** by QSL-card and letter. **F.PL.:** Power of WRUL5 being increased to 100 kW. – **PUB.:** Write for prgr.-sched.

PRIVATE STATIONS

Number of Radio Stations in the U.S.A. as of June 1, 1958.

	Total Authorized	Licensed & Operating	Construction Permits
AM Stations	3340	3248 (1)	92
FM Stations	628	541 (2)	87

1) 3248 stations incl. 3208 licensed and 40 operating CPs (incl. 39 operating non-com.).
2) 541 stations including 524 licensed and 17 operating CPs. (Does not include 140 operating non-com.).
Receivers in use: 130–150 millions.

EDUCATIONAL STATIONS

(non. Comm.). In operation 39 AM st., 140 FM st.
ADDR.: Office of Education, Washington 25, D.C. – **L.P.:** Chief Radio-Television: Dr. Franklin Dunham.
870 kc/s 50 kW WWL N. Orleans L. – 1030 kc/s 50 kW KWBU Corpus Christus, Te.

Dr. Franklin Dunham

NATIONAL ASSOCIATION OF EDUCATIONAL BROADCASTERS: (NAEB.)

The national independent professional association, which since 1925 has represented the interests and needs of educational television and radio broadcasters, represents appr. 75 % of the educational stations and production centers of the United States (appr. 90 % exc. those identified as theological or religious st.)
ADDR.: Executive Office: 14 Gregory Hall, Urbana, Illinois.
L.P.: Pres.: F. E. Schooley. Vice-Pres.: J. McBride. Exec. Dir.: Dr. Harry J. Skornia. Associate Dir.: H E. Hill.
Stations: 132 educational institutions and organizations owning and operating a total of 196 educational radio and 32 educational T.V. stations: AM-stations: 39; FM-stations: 157; TV-stations: 32.
Activities and Functions: The NAEB is the Association of American institutions operating educational, cultural and public sce. radio and TV st. and production centers. Its services include workshops, seminars, regional and national annual conferences, personnel-upgrading programs, engineering, legal, research and other operational consultant services, an employment agency, and numerous publications in radio and T.V., incl. a monthly Newsletter. It maintains an active production prgr. and has an exchange-advisory membership relationship with most national educational organizations. The NAEB also operates a radio network which duplicates via tape and distributes to member-stations several hours of programming per week. At present there are some 78 stations in this network.
It also actively cooperates with various international organizations (European Broadcasting Union, Prix Italia, International University of the Air, UNESCO, etc.), and the national systems of various other countries (R.T.F., BBC, RAI and others), exchanging prgrs., publications and personnel with the broadcasting organizations of over 20 nations in Europe, Asia, Australia and Africa, as well as those in No.,C. and So. America.

MUNICIPAL BROADCASTING SYSTEM (The City of New York).
ADDR.: 2500 Municipal Bldg., New York 7, N.Y. – **L.P.:** Dir. Gen : Mayor R. F. Wagner. Mgr., Dir. For. Rel.: S. N. Siegel. Dir. Adm.: J. de Prospo. Dir. Prgr.: B. Buck. Dir. Tec.: H. Wei.
Stations: WNYC 830 kc/s 1 kW.: D. 10.00–02.00. FM: 93.9 mc/s 20 kW D. 24 h
N.: Every h. 5 min. before the h. – **Wrp.:** 11.45, 17.45, 22.45.
ANN.: "This is the Municipal Broadcasting System WNYC, the voice of the city." – **INT.-SIG.:** Clock chimes of N.Y.'s City Hall: 11.00, 16.00, 23.00. – **V.** by letter. – **PUB.:** Masterwork Bulletin. Bimonthly. Free by sending postage.

COMMERCIAL STATIONS.

RADIO STATION KGEI Inc., The Voice of Friendship.
ADDR.: Box 2, Belmont, Cal.
L.P.: Pres.: M. R. Steffins. Prgr.-Coordinator: M. R. Steffins Jr. Ope-

rations Mgr.: H. van Dyke. Dir. Tec.: Don Carlos Smith
STATION: KGEI 17800 kc/s 16.85 m 50 kW. Directional Latin America: D. 01.15–04.15.
Prgr. Preview English 01.17, 03.15. **Prgr.** English. **D.** 01.15–01.30, 03.15–04.15. **Prgr. Spanish: D.** 01.30–03.15.
ANN.: English: "This is the Voice of Friendship International Broadcast Station KGEI, San Francisco, California, the United States of America, transmitting on a frequency of 17.8 megacycles in the 16 meter band and dedicated to the purpose of promoting good will, better understanding and friendship among the peoples the Americas. This is **the Voice of Friendship."** – **INT.-SIG.:** Signs off with "The Lord's Prayer" and the National Anthem – **VER.** by QSL-cards. – **PUB.:** Prgr. sched. and illustrated folder telling about the station sent to all requesting.

M.W. Stations operating with a power of 10 kW and above. The time each station is authorized to operate is indicated in the list. Each station is required to operate at least two-thirds of the hours it is authorized to operate between 6:00 AM and 6:00 PM, and two-thirds of the hours it is authorized to operate between 6:00 PM and midnight. If authorized to operate unlimited time, it may operate for the entire 24 h.

Abbreviations: D: Daytime operation. LS=Local Sunset. N: Night. L=Limited Time. +=CP granted for increase of power. CP=Construction permit. a) 24 h. Al=Alabama. Ala=Alaska. Ark=Arkansas. Cal=California. Colo=Colorado. D=Dakota. Fla=Florida. Ga=Georgia. Id=Idaho. Ill=Illinois. Ind=Indiana. Ia=Iowa. Kan=Kansas. Ky=Kentucky. La=Louisiana. Md=Maryland. Mo=Missouri. Mich=Michigan. Mass=Massachusetts. N.C.=No. Carolina. Neb=Nebraska. N.Y.=New York. O=Ohio. Okla=Oklahoma. Or=Oregon. Pa=Pennsylvania. Tex=Texas. Tenn=Tennessee. Va=Virginia. Wisc=Wisconsin. U=Utah.

Call	kW
540	
WGTO	10 Haines City, Fla. D
560	
WIND	50 Chicago, Ill. a)
640	
KFI	50 L. Angeles, Cal. a)
650	
WSM	50 Nashville, Tenn. a)
660	
KFAR	10 Fairbanks, Ala. a)
670	
WMAQ	50 Chicago, Ill. a)
680	
KENS	50,LS/10,N, S.Antonio, Tex.
KNBC	50 S. Francisc., Cal. a)
WMPS	10,LS/5,N, Memphis, Tenn.
WNAC	50 Boston, Mass. a)
WPTF	50 Raleigh, N.C. a)
WRCA	50 New York, N.Y. a)
690	
KGGF	10,LS/5,N, Coffeyville, Kan.
KHEY	10 El Paso, Tex. a)
WCYB	10 Bristol, Va. D
WVOK	50 Birmingh. Al. D
700	
WLW	50 Cincinnati, O. a)
710	
KGNC	10 Amarillo, Tex. a)
KIRO	50 Seattle, Wash. a)
KMPC	50,LS/10,N, L.Angeles, Cal.
KTBS	10,LS/5,N, Shreveport, La.
WGBS	50,LS/5,N, Miami, Fla
WHB	10,LS/5,N, Kansas City, Mo.
WOR	50 New York, N.Y. a)
720	
WGN	50 Chicago, Ill. a)
730	
KFQD	10 Anchorage, Ala. a)
740	
KBIG	10 S. Catalina, Cal. D
KCBS	50 S. Francs., Cal. a)
KCMO	50,LS/10,N, Kansas City, Mo.
KRMG	50,LS/25,N, Tulsa, Okla.
KTRH	50 Houston, Tex. a)
WBAM	50 Montgomery, Al. D

Call	kW
WPAQ	10 Mt. Airy, Cal. D
750	
KXL	10,LS/10,N, Portland, Ore.
WSB	50 Atlanta, Ga. a)
760	
WJR	50 Detroit, Mich. a)
770	
WABC	50 New York, N.Y. a)
780	
WBBM	50 Chicago, Ill. a)
810	
KGO	50 S. Francs., Cal. a)
WGY	50 Schenect., N.Y. a)
820	
WBAP	50 Ft. Worth, Tex. a)
WFAA	50 Dallas, Tex., a)
840	
WHAS	50 Louisville, Ky. a)
850	
KOA	50 Denver, Colo. a)
WHDH	50 Boston, Mass., a)
WKIX	10,LS/5,N, Raleigh, No.C.
WYDE	10 Birmingh., Al. a)
860	
KOAM	10,LS/5,N, Pittsburg, Kan.
KTRB	10,LS/1,N, Modesto, Cal.
WOAY	10 Oak Hill, We.Va. D
870	
WWL	50 N. Orleans, La. a)
880	
WCBS	50 New York, N.Y. a)
890	
WLS	50 Chicago, Ill. a)
900	
KFRB	10 Fairbanks, Ala. a)
940	
KFRE	50 Fresno, Cal., a)
KIOA	10,LS/5,N,Des Moines, Ia.
WINZ	50,LS/10,N, Hollywood, Fla.
WMAZ	10 Macon, Ga. a)
990	
KSYD	10,LS/1,N, Wichita, Tex.
KTKT	10 Tucson, Ariz. D
WHOO	10,LS/5,N, Orlando, Fla.
WIBG	10 Philadelph., Pa. a)

Call	kW
WNOX	10 Knoxville, Tenn. a)
1000	
KOMO	50 Seattle, Wash., a)
WCFL	50 Chicago, Ill. a)
1010	
KLRA	10,LS/5,N, Little Rock Ark.
KRVN	25 Lexington, Neb., D
KSAY	10 S. Francs., Cal. D
WEAS	50 Decatur, Ill., D
WINS	50 New York, N.Y., a)
1020	
KDKA	50 Pittsburgh, Pa., a)
1030	
KOB	10 Albuquerq., NM. a)
KWBU	50 Corp. Chr., Tex., D
WBZ	51 Boston, Mass., a)
1040	
WHO	50 Des Moines, Ia., a)
1050	
WMGM	50 New York., N.Y. a)
1060	
KXOC	10 Chico., Cal., a)
WNOE	50,LS/5,N, New Orleans, La.
WRCV	50 Philadelph., Pa., a)
1070	
KFBI	10,LS/1,N, Wichita, Kan.
KNX	50 L. Angeles, Cal., a)
WAPI	10,LS/5,N, Birmingham, Al.
WDIA	50,LS/5,N, Memphis, Tenn.
WIBC	50,LS/10,N, Indianapolis, Ind.
WKOW	10,LS/5,N, Madison, Wisc.
1080	
KRLD	50 Dallas, Tex., a)
KWJJ	10 Portland, Ore., a)
WTIC	50 Hartford, Conn., a)
1090	
KING	50 Seattle, Wash., a)
KTHS	50 Little Rock, Ark. a)
WBAL	50 Baltimore, Md., a)
1100	
KYW	50 Cleveland, O., a)
1110	
KFAB	50 Omaha, Neb., a)
KXLA	10 Pasadena, Cal., a)
WBT	50 Charlotte, No.C. a)
1120	
KMOX	50 St. Louis, Mo., a)
1130	
WDGY	50,LS/25,N, Minneapolis, Minn.
WNEW	50 New York, N.Y., a)

Call	kW
KWKH	50 Shreveport, La., a)
1140	
KGEM	50 Boise, Id., a)
KSOO	10,LS/5,N, Sioux Falls, So.D.
WMIE	10,LS/5,N, Miami, Fla.
WRVA	50 Richmond, Va., a)
1160	
KSL	50 Salt Lake City, U.,a)
WJJD	50,LS/50,L,N, Chi., Ill
1170	
WCOV	10,LS/1,N,Montgomery, Al.
WWVA	50 Wheeling, W.Va. a)
1180	
WHAM	50 Rochester, N.Y., a)
1190	
KEX	50 Portland, Ore., a)
WOWO	50 Ft. Wayne, Ind., a)
KYW	50 Cleveland, O., a)
1200	
WOAI	50 S. Antonio, Tex. a)
1210	
WCAU	50 Philadelph., Pa., a)
1200	
WGAR	50 Cleveland, O., a)
1500	
KSTP	50 St. Paul, Minn., a)
WJBK	10,LS/1,N, Detroit, Mich.
WTOP	50 Wash., D. C., a)
1510	
KGA	50 Spokane, Wash., a)
WLAC	50 Nashville, Tenn., a)
1520	
KGON	10 Oregon City, Ore.a)
KOMA	50 Okla. City, Okla. a)
WKBW	50 Buffalo, N.Y., a)
1530	
KFBK	50 Sacramento, Cal. a)
KGBT	50,LS/10,N, Harlingen, Tex.
WCKY	50 Cincinnati, O. a)
1540	
KCUL	10,LS/1,N, Ft. Worth, Tex.
KPOL	10*L. Angeles, Cal. D
WPTR	50 Albany, N.Y. a)
KXEL	50 Waterloo, Ia., a)
1550	
KOBY	10 S. Francsc., Cal., a)
1560	
KPMC	10 Bakersfield, Cal., a)
WQXR	10/50* New York, N.Y., a)
1580	
KDAY	10/50*S. Monica, Cal., D

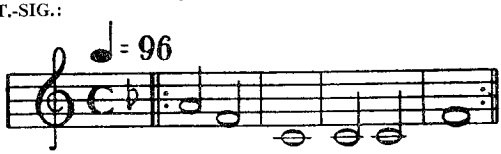
Alaska stations:
KFAR 660 kc/s 10 kW: 16.30–10.00.– **Addr.:** P.O. Box 910, Fairbanks. **L.P.:** Dir. Gen.: A. O. Bramstedt. **V.** by letter. R.p.
KENI 550 kc/s 5 kW: 16.30–10.00. **Addr.:** P. O. Box 1160, Anchorage. **L.P.:** Dir. Gen.: A. O. Bramstedt. **V.** by letter. R.p.
KJNO 630 kc/s 1/0.5 kW: W. 14.30–08.00. Sun. 15.55–07.00 in English, Thlinget (Alaskan Indian). – **L.P.:** Mgr.: J. B. Mangan. **Addr.:** P.O. Box 2231, Juneau. **V.** by letter.
KLAM 1450 kc/s 0.25 kW: 15.30–17.30, 01.00–06.00. **Addr.:** Box 278, Cordova.
KBYR 1270 kc/s 1 kW: 24 h. **Addr.:** Box 1960, Anchorage. **L.P.:** Dir. Gen.: E. Pournelle. **V.** by letter.
KFRB 900 kc/s 10 kW: 24 h. **Addr.:** R. Anchorage Inc., Fairbanks. **V.** by letter.
KFQD 730 kc/s 10 kW: 24 h. **Addr.:** Anchorage Broadcastings, Anchorage. **V.** by letter.
KINY 800 kc/s 5 kW: 14.30–08.00. **Addr.:** Alaska Broadc. Co., Juneau.

AMERICAN BROADCASTING CO. (A Division of American Broadc., Paramount Theatres, Inc.) – **ADDR.:** 7 West 66th Str., New York J3. **L.P.:** Acting Pres.: L. H. Goldenson. Exec. Vice Pres.: J. G. Riddell. Vice Pres. in charge of the Radio Network: M. J. Foster. Treasurer: S. R. Siegel. – **American Broadcasting Radio Network** (A subsidiary of American Broadc. – Paramount Theatres, Inc.). – **L.P.:** R. E. Eastman.
Owned and operated stations: WABC+FM, New York: 770 kc/s 50 kW. – **KABC** – +FM, Los Angeles: 790 kc/s 5 kW. – **KGO+FM**, San

Francisco: 810 kc/s 50 kW. – **WXYZ**+FM, Detroit: 1270 kc/s 5 kW. – **KQV**, Pittsburgh: 1410 kc/s 5 kW.
NATIONAL BROADCASTING CO. (N.B.C.): ADDR.: RCA Building, Radio City, New York 20, N.Y. – **L.P.:** Chairman of the Board: R. W. Sarnoff. Pres. of the National Broadc. Co.: R. Kintner. Vice Pres.: M. J. Culligan. Vice-Pres. of Prgr.: W. K. McDaniel. Mgr. of Publicity: C. A. Henderson.
Radio Network U.S. affiliates of the NBC: 208 stations. – **V.** by QSL-card or letter.
COLUMBIA BROADCASTING SYSTEM: ADDR.: 485, Madison Avenue, New York, 22. – **L.P.:** Chairman of the Board of Directors: William S. Paley. Pres.: F. Stanton. Secr.: J. F. Brauner. Treasurer: S. R. Dean. Controller: H. C. Lang. Vice Pres. of Inf., Pres.: E. K. Meade.
Owned and operated stations: 50 kW: **WCBS**, New York: 880 kc/s. – **WBBM**, Chicago: 780 kc/s. – **KCBS**, S. Francisco: 740 kc/s. – **KMOX**, St. Louis: 1120 kc/s. – **KNX**, 1070 kc/s. – 5 kW: **WEEI**, Boston 590 kc. **V.** by QSL-card or letter.
MUTUAL BROADCASTING SYSTEM: ADDR.: 1440 Broadway, New York 18.
KEYSTONE BROADCASTING SYSTEM: ADDR.: 111 W, Washington Str., Chicago 2. 527 Madison Ave., New York 22. – **Stations:** The Keystone Broadc. System is a transcription network covering principally hometown and rural America. It has close to 1000 affiliated A.M. radio stations.
WESTINGHOUSE BROADC. COMP. Inc.: ADDR.: 122 East 42 Str., New York 17. – **L.P.:** Pres.: D. H. McGannon. Dir. Prgrs.: W. J. Kaland. Dir. Tec.: R. N. Harmon.
Owned and operated stations: AM: 6, FM: 4, TV: 5. **D.Prgr.:** 24 h. **WBZ/WBZA**+**FM**: 1030 kc/s, 1170 Soldiers Field Rd., Boston. **L.P.:** Gen. Mgr.: P. E. Mills. Dir. Tec.: W. H. Hauser. – **KDKA**+**FM**: 1020 kc/s One Gateway Center, Pittsburgh. **L.P.:** Gen. Mgr.: L. R. Rawlins. Dir. Tec.: R. W. Rogers. – **KYW**+**FM**: 1190 kc/s 815 Superior Ave., N. E., Cleveland. **L.P.:** Gen. Mgr.: G. W. Davis. Dir. Tec.: S. Stadig. – **WIND**: 560 kc/s 400 No. Michigan Ave., Chicago. **L.P.:** Gen. Mgr.: R. Atlass. Dir. Tec.: P. Fowler. – **KEX**+**FM**: 1190 kc/s 1230 So. We. Main Str., Portland. **L.P.:** Gen. Mgr.: H. L. Bachman. Dir. Tec.: J. A. Erwin. – **WOWO**: 1190 kc/s, 124 We. Washington Blvd., Ft. Wayne. **L.P.:** Gen. Mgr.: C. W. Vandagrift. Dir. Tec.: H. Brokaw. – **V.** by QSL-card.

★ UNITED NATIONS ★

ADDR.: United Nations, New York. **Cable:** UNATIONS, New York. – **L.P.:** Under-Secr. for Public Information: Ahmed S. Bokhari.
Radio and Visual Services Division: Dir.: Peter Aylen. Dep. Dir.: F. Passigli. – **R. Services:** Chief: G. L. Obhrai. Chief of Production: H. R. van Stuwe. – **TV-Services:** Chief: W. S. Henson. – **TV-Radio Operations:** Chief: M. Hayward.
INT.-SIG.:



ANN.: "This is the United Nations calling the Peoples of the World." This introductory phrase is used in all the official UN prgrs. in all of the languages concerned.
Message to listeners: The Radio and Visual Services Division is anxious to establish contact with as many listeners as possible and will gladly acknowledge all communications. All correspondents will receive a United Nations Radio Verification Card. Upon request, new correspondents are sent a prgr. sched. and some general information about the United Nations and the Specialized Agencies. Correspondence and requests for copies of the schedule of UN broadcasts should be addressed to the Director of the nearest UN Information Centre. These centres are located in Accra, Athens, Bangkok, Belgrade, Bogotá, Buenos Aires, Cairo, Copenhagen, Djakarta, Geneva, Karachi, London, Manila, Mexico City, Monrovia, Moscow, New Delhi, Paris, Prague, Rio de Janeiro, Santiago, Shanghai, Sydney, Teheran, Tokyo, Washington D.C. Requests for copies of the sched. of UN broadcasts which can be heard in the United States should be addressed to: Radio and Visual Services Division, United Nations, New York.
BROADCASTS FROM THE UNITED NATIONS
No., We. Europe: Mo.-Fri. 17.00–17.30: WBOU 21540 kc/s: **Fi, Fl, F.**
We., So., Europe: Mo.-Fri. 17.45–18.30: WDSI 21690 kc/s, Tangier 11890 kc/s: I(Switz.), **Gr**, I(Italy), G(Austria), **Hungarian.**
No. Africa, M. East: Mo.-Fri. 18.30–19.00: WDSI 21690 kc/s, Tangier 11890 kc/s: **Arabic.**
We., So., Europe: Mo.-Fri. 19.00–20.00 WDSI 21690; 19.30–20.00 Tangier 11890 kc/s. Turkish, Dutch.
So.America, Caribbean: Mo.-Fri. 23.00–24.00: WDSI 15270, WLWO 17710, WLWO 15160, WBOU 11870 kc/s: **Spanish.**
M.East, So.Europe: Tues.-Sat. 07.00–08.00: Tangier 21705, 15230 kc/s: **Serbo-Croat, Duri, Amharic, I, Hebrew.** This prgr. is tr. to Tangier: 03.30–04.30 on WLWO 15165, 11970 kc/s.
So. We. Pacific: Tues.-Sat. 08.00–08.15: KNBH 17760, 15250 kc/s: **E.** for Au., N.Z.
Sce. to Japan: Tues.-Sat. 08.45–09.00: KNBH 11900, 9515 kc/s: **Japanese.**
Sce. to Malaya: Tues.-Sat. 09.45–10.00: Philippines 11765 kc/s: **E.** This prgr. is tr. to N.Luzon 08.30–08.45 on KNBH 11900, 9515 kc/s.
So.E.Asia: Tues.-Sat. 10.00–10.30: Manila 15210 kc/s: **Tag., Ind.,** (Sat. only) **Thai.** – This prgr. is tr. to Manila on KNBH 11900, 9515 kc/s.
Far East: Tues.-Sat. 10.30–11.00: Manila 15210, 11790 kc/s: **Chi.** This prgr. is tr. to Manila 09.00–09.30 on KNBH 11900, 9515 kc/s.
Sce. to Ceylon: Tues.-Sat. 11.45–12.00: Tangier 25880, 21455 kc/s: **Sinhalese, E.** Transmitted to Tangier on WLWO 17795, 21730 kc/s.
To Ea.Europe from European Office, United Nations, Geneva, Switzerland: Mo.-Fri. 15.45–16.10: HEU2 9520 kc/s: **Russian.**
BROADCAST OF MEETINGS OF THE GENERAL ASSEMBLY AND THE SECURITY COUNCIL WHEN IN SESSION
1. **Europe, N.Africa and M.East in E, F: AM Meeting:** 15.30–17.45: WDSI 21690 kc/s. Tangier 15425 kc/s. – **PM Meeting:** 20.00–22.30: WDSI 21690 kc/s. 20.00 – conclusion: Tangier 11890 kc/s. 21.15 – conclusion: WBOU 15285 kc/s. 23.45 – conclusion: WBOU 11710 kc/s.
2. **Ea., C., We., So.America in Sp.: AM Meeting:** 15.30–18.00 WBOU 17780 kc/s. – **PM Meeting:** 20.00 – conclusion: WBOU 17780 kc/s.
Prgrs. from the United Nations are broadcast by st's in more than 100 countries and territories. The times of these rebroadcasts may be ascertained from local newspapers or from the stations concerned – Radio stations in the United States and Canada receive the prgrs. direct by line from the United Nations Headquarters, or by recording – The Radio and Visual Services Division prepares and distributes recorded prgrs. in Amharic, Arabic, Burmese, Duri, Dutch, English, Finnish, French, German, Greek, Hebrew, Hindi, Indonesian, Italian, Persian, Portuguese, Pushtu, Serbo-Croat, Sinhalese, Spanish, Tagalog, Thai, Turkish, and Urdu – Letters from listeners all over the world are welcome. The Radio and Visual Services Division acknowledges with a verification card reports on the reception of s.w. transmissions. New listeners are sent some general information about the United Nations upon request – Correspondence and requests for particulars of the United Nations broadcasts from Headquarters should be addressed to: Radio and Visual Services Division, United Nations, New York.

CENTRAL AMERICA

★ BAHAMAS (British) ★

L.T.: GMT÷5 h. – **L.:** English. – **Rcvrs.:** 16.000.
BAHAMAS BROADCASTING AND TELEVISION COMMISSION (Go.)
ADDR.: P.O. Box 1347, Nassau. – **L.P.:** Dir. Gen.: Hon. W. H. Sweeting. Mgr.: H. R. Bethel. Dir. For. Rel.: K. Jackson.
HOME SERVICE: ZNS 1540 kc/s 195 m 5 kW: 11.00–05.00. **N.:** 13.15, 18.15, 00.15. – **ANN.:** "This is St. ZNS, Nassau". – **V.** by letter.

★ BARBADOS (British) ★

L.T.: GMT÷4 h. – **L.:** English. – **Rcvrs.:** 10.000.
BARBADOS REDIFFUSION SERVICE LTD. (Wired Broadc. Priv. Comm.). – **ADDR.:** Trafalgar St., Bridgetown. – **L.P.:** Gen. Mgr.: R. W. R. Oliver. – **D. PRGR.:** 10.00–03.00. Wired broadc. sce.

★ BERMUDA (British) ★

L.T.: GMT÷4 h. – **L.:** English, Portuguese. – **Rcvrs.:** 16.200.
BERMUDA BROADCASTING CO. LTD. (Comm.)
ADDR.: Pitts Bay Road, Hamilton. – **Cable:** ZBM Bermuda. – **L.P.:** Gen. Mgr.: W. Staskow. D. Prgr.: J. Dodge. Dir. Tec.: J. H. Spershott. Dir. For. Rel.: J. Robinson.
HOME SERVICE:

ZBM1:	1235 kc/s	242.9 m	0.25 kW:	D. 10.00–04.00.
ZBM2:	1340 –	223.3 –	0.25 – :	D. 11.45–23.30.

N.: D. 10.55, 11.45, 13.00, 16.45, 18.00, 19.00, 20.00, 21.00, 22.00, 23.00, 01.00, 02.05, 03.30. – **Portuguese:** D. 10.15–10.30, 00.30–01.00 (Sat. only) on 1235 kc/s. – **French:** Wed. 14.30–15.00 on 1340 kc/s.
ANN.: "This is R. Bermuda". – **V.** by QSL-card. R.p. appreciated.

★ COSTA RICA ★

L.T.: GMT÷6 h. – **L.:** Spanish. – **Rcvrs.:** 75.000.

DEPARTEMENTO CONTROL NACIONAL DE RADIO, Apartado 3483, San José. – All st. comm. exc. TIFC, TIAC, TIRU (Cultural).

STATIONS: Short Waves: Call: TI––

Call	kc/s	m	kW	m.w.	Name	H. of tr.
1) Q	5960	50.34	1	1175	R. Casino	11.55–05.00
2) HB	6006	49.95	0.75	690	R. Reloj	24 h.
3) FC	6037	49.69	0.5d[1])	995	Faro del Caribe	12.00–05.00
4) GG	6075	49.38	0.5	1060	R. Exelsior	12.00–05.00
5) RH	6150	48.78	0.25d[3])	970	R. El Mundo	inactive
6) RICA	9615	31.20	3	625	La V. de la Victor	11.00–07.00
3) FC	9645	31.10	2d[2])	995	Faro del Caribe	12.00–05.00

[1]) East & West. [2]) North & South. [3]) Caribe.

Medium Waves: Call: TI––. ° Short Wave.

Call	kc/s	kW	Call	kc/s	kW	Call	kc/s	kW
1) Q	555	1	17) SS	830	1.3	26) BSD	1195	1
7) JJM	575	1.5	18) CS	855	6	27) ALC	1210	1
8) JC	590	1	19) LS	880	2	28) RE	1235	1
9) AV	605	1	20) LC	900	1	29) SBJ	1275	2
6) RICA	°625	7	21) RS	920	4	30) CRC	1325	2.3
10) GPH3	650	10	22) CEC	940	1	31) MAR	1350	1
11) U	670	1	23) AC	955	2	32) CJ	1400	1
2) HB	°690	2	5) RH	°970	1	33) MMC	1425	2
12) LX	710	1	3) FC	°995	10	34) HCJ	1450	1
13) RA	735	1	24) EM	1040	1	35) ZZ	1490	1
14) W	750	4.5	4) GG	°1060	1	36) EEAW	1500	1
15) OS	775	1.5	25) SM	1125	1	37) JJG	1575	1
10) GPH2	800	10	12) LX	1150	2			
16) UCR	815	1	1) Q	°1175	1			

FM: 10) 88 mc/s

Short Waves:

1) Apt. 287 Puerto Limon. – **L.P.:** Dir. L. Villalobes. – **V.** by letter.
2) Apt. 341, San José. – **L.P.:** Dir. R. Gomez. – **V.** by letter.
3) Apt. 2710, San José. – **L.P.:** Mgr.: F. Cabezas B. Dir. Prgr.: G. Herzog S. Dir. Tec.: D. Solt W. – **D. Prgr.: On all fq's: Spanish:** W. 12.00–04.00. Sun.: 12.45–20.00, 21.00–04.00. – **N.:** W. 00.15. **"Caravana Musical" (request prgr.):** W.: 19.00–20.00, 22.00–23.00, 02.00–02.45. – **English:** D. 04.00–05.00. Sun. 20.00–23.00. Sat., Sun. 03.00–04.00 (s.w. only). – **German:** Sun. 12.30–12.45. Mo. 05.00–05.15. – **ANN.:** E.: "You are tuned to TIFC, The Lighthouse of the Caribbean, transmitting from San José, Costa Rica, located in Central America". **V.** by QSL-card. – **PUB.:** Prgr.sched. free on request.
4) Apt. 1774, San José. – **L.P.:** Dir.: G. Grillo O. – **ANN.:** "Emisoras de R. Exelsior en San José, Costa Rica, Centroamerica". – **V.** by QSL-card or letter.
5) Apt. 1339, San José. – **L.P.:** Dir.: R. H. Chavorria.
6) Apt. 3611, San José. – **Cable:** "La Victor". – **L.P.:** Dir. Gen.: M. A. Salazar. Dir. Prgr.: J. S. Rodriguez. Dir. Adm.: Maria C. A. Alfaro. Dir. Tec.: A. A. Bolaños. Dir. Foreign Relations: M. A. Salazar. – **D. Prgr.: N., Commentary:** 11.45, 12.30, 17.00, 21.00, 03.30, 04.50. – **Nat. music:** 11.30, 20.30, 06.00. – **Wrp.:** 12.30. – **V.** by letter.

Medium Waves:

7) **R. Progreso,** Apt. 122, Alajuela. – **L.P.:** Dir.: E. Martinez J.
8) **Radiopolis,** Apt. 854, San José. – **L.P.:** Dir.: J. Castro C.
9) **R. Selecta,** Apt. 4666, San José. – **L.P.:** Dir.: A. Vargas V.
10) **Empresa Gonzalo Pinto Sucs,** Apt. 800, San José. – **L.P.:** Dir. Gen.: L. Pinto S. Mgr.: C. S. de Pinto. Dir. Tec.: L. Loaiza. – **D. Prgr.:** 11.00–05.05. – **ANN.:** "TIGPH2 Nueva Alma Tica 800 kc/s (and TIGPH3 R. Monumental) de la Empresa Gonzalo Pinto H. Sucs para la gran familia costarricense". – **F.PL.:** Network to cover the whole country. – **V.** by letter.
11) **R. Musical,** Apt. 854, San José. – **L.P.:** as 8).
12) **R. Columbia,** Apt. 708, San José. – **L.P.:** Dir.: C. A. McAdam (Tr. 1150 kc/s located at Puntarenas).
13) **R. America Latina,** Apt. 2525, San José. – **L.P.:** Dir.: R. Aguilar V.
14) **R. City,** Apt. 835, San José. – **L.P.:** A. Murelo C. – **V.** by letter. Reports can be written in English.
15) **R. Titania,** Apt. 512, San José. – **L.P.:** Dir.: M. Sotela.
16) **R. Universitaria,** San Pedro. – **L.P.:** Dir.: C. Salazar H.
17) **La Voz del Tropico,** Apt. 914, San José. – **L.P.:** Dir.: G. Salenz O.
18) **La Voz de America,** Apt. 517, San José. – **L.P.:** Dir.: A. F. Cañas I. – **V.** by letter.
19) **Radion,** Guadalupe. – **L.P.:** Dir.: R. Castro.
20) **R. Hispana,** Cartago. – **L.P.:** Dir.: J. F. Lafuente C.
21) **R. Athenea,** Apt. 2208, S. José. – **L.P.:** Dir.: O. Sotela. – 24 h.
22) **R. Cima,** San Ramón. – **L.P.:** Dir.: C. E. Córdoba.
23) **R. Fides** (Emisora Catolica), Apt. 1933, San José. – **L.P.:** Dir.: A. T. Cascante. – **D. Prgr.:** 13.00–04.15., **Spanish, English.** – **V.** by QSL-card.
24) **R. Sonora,** Apt. 2375, San José. – **L.P.:** Dir.: E. Martinez L.
25) **R. Sport,** Apt. 4140, San José. – **L.P.:** Dir.: O. Torres R.
26) **R. Paramounth,** Apt. 4026, S. José. – **L.P.:** Dir.: E. Carjavel A.
27) **R. Universal,** Apt. 2302, S. José. – **L.P.:** Dir.: R. Sobrado.
28) **R. Emmaus,** Cornado. – **L.P.:** Dir.: C. H. Rodriguez.
29) **R. Libertad,** Apt. 4075, S. José. – **L.P.:** Dir.: S. Bermudez J.
30) **R. Centro,** Puntarenas. – **L.P.:** Dir.: F. A. Monge.
31) **R. Tropical,** Heredia. – **L.P.:** V. M. Vignez H.
32) **R. Sinai,** San Isidro del General. – **L.P.:** Dir.: G. Jimenez.
33) **R. Golfito,** Puerto Golfito. – **L.P.:** Dir.: M. Castro. Dir. Tec.: F. V. Castro. – **D. Prgr.:** 12.00–05.00. – **V.** by letter.
34) **R. Santa Cruz,** S. Cruz (Guanacaste). – **L.P.:** Dir.: H. R. Carazo
35) **La Voz del General,** S. Isidro del General.
36) **R. Turrialba,** Turrialba. – **L.P.:** Dir.: C. M. Dengo M.
37) **La Voz de Guanacaste,** Liberia. – **L.P.:** Dir.: A. Céspedes.

★ CUBA ★

L.T.: GMT÷5 h. – **L.:** Spanish. – **Rcvrs.:** 900.000. All st. comm. C=Circuito. * inactive.

STATIONS Short Waves: CO...

Call	kc/s	m	kW	mw	Names – h. of tr.
1) CA	*2440	122.9	1		R. dif. COCA
2) CW	*5045	59.46	1	590	C. Nacional Cubano
3) CO	*6010	49.92	5	980	El Periodico del Aire
4) CD	*6130	48.94	1	760	La Voz del Aire
5) CY	*6175	48.58	1	550	R. Siboney
6) BZ	9030	33.20	1	830	R. Salas: 12.00–06.00
7) BQ	9235	32.45	1	890	R. Onda Musical Cubana
8) BC	9362	32.05	1	690	R. Progreso: 10.20–06.00
3) CO	9535	31.46	0.25	980	El Periodico del Aire: 11.58–04.58
7) BQ	*9540	31.45	1	890	R. Onda Musical Cubana
9) JK	9620	31.19	1	1160	La V. del Camagüeyano: 12.00–05.00
10) X4	*9640	31.12	5	1560	Ministerio de Educacion
11) CQ	9670d	31.02	1	630	Circuito CMQ: 10.27–05.00
12) RG	9740	30.80	1	1000	R. Reloj del Aire: 11.55–06.00
13) BL	9833	30.51	1	860	R. Aeropuerto Internc.: 12.00–06.00
2) CY	11740	25.55	1	590	C. Nacional Cubano: 23.00–05.00
14) BH	11800	25.42	1	790	R. Onda Mus. Española: 03.00–07.00
6) BZ	*17820	16.84	1	830	R. Salas
8) BC	*17850	16.81	1	690	R. Progreso
5) CY	*21620	13.87	1	550	R. Siboney
2) CW	*21740	13.80	1	590	C. Nacional Cubano

Medium Waves: Call: CM––. °=short waves.

Habana:	kc/s	kW	Call	kc/s	kW	Call	kc/s	kW
5) CY	°550	5	14) CH	°790	10	3) CK	°980	5
2) W	°590	25	6) BZ	°830	5	19) BQ	1010	10
11) Q	°630	50 d	13) BL	°860	15	20) CX	1060	10
15) CW	660	5	7) CA	°890	0.25	21) CI	1260	5
8) BC	°690	50	17) CF	910	10	22) CB	1330	1
16) CA	730	10	18) BF	950	10	10) Z	°1560	0.25
4) CD	°760	10						

Low power st. (less 1 kW): 15 stations.

Pinar del Rio (Prov.):

Call	kc/s	kW	Call	kc/s	kW	Call	kc/s	kW
8) AF	680	1	2) AN	840	1	11) AQ	920	1
23) AB	740	5	17) AG	880	1			

Low power st. (less 1 kW): 9 stations.

Matanzas (Prov.):

Call	kc/s	kW	Call	kc/s	kW	Call	kc/s	kW
17) GX	880	1	2) GF	930	0.25	2) GN	960	0.5

Low power st. (less 1 kW): 8 stations.

Las Villas (Prov.):

Call	kc/s	kW	Call	kc/s	kW	Call	kc/s	kW
2) HI	570	10	25) HT	990	1	29) HK	1210	1
11) HQ	640	15 d	26) HS	1020	1	30) HA	1280	1
8) HG	670	1	27) HF	1040	1	31) HO	1310	1
8) HN	680	1	21) HM	1130	1	32) HC	1410	1
24) HW	810	1	28) HV	1180	1	33) HY	1590	1
17) HD	890	1						

Low power st. (less 1 kW): 10 stations.

Camagüey (Prov.):

Call	kc/s	kW	Call	kc/s	kW	Call	kc/s	kW
8) JE	680	1	11) JV	900	1 d	36) FA	1110	1
8) JT	700	1	11) JL	920	10 d	9) JK	°1160	1
34) JY	760	1	2) JN	960	5	37) JC	1270	1
21) JS	800	1	21) JG	1000	1	38) JF	1340	1
17) JB	880	1	35) JR	1030	1			

Low power st. (less 1 kW): 15 stations.

Oriente (Prov.):

Call	kc/s	kW	Call	kc/s	kW	Call	kc/s	kW
17) KM	560	5	21) KL	800	2	41) DW	1030	5
2) KV	600	10	40) DQ	840	1	42) KR	1090	1
11) KU	630	1 d	39) KC	850	2	43) DL	1150	1
8) KP	670	1	2) KN	930	1	17) KB	1170	1
8) DB	680	1	39) DJ	950	0.5	39) DD	1200	1
11) KJ	740	10 d	21) KD	970	1	44) DA	1320	1
39) DC	770	1	12) KW	°1000	0.25	45) KT	1520	1

Low power st. (less 1 kW): 30 stations.

FM: 20 stations (19=0.25 kW, 1=0.5 kW).

Short Waves:

1) Calle 25 No. 162, Habana.
2) Calle O 216, Apt. de Correos 3540, Habana. – **L.P.:** Dir. Gen.: J. Villanueva. Dir. Tec.: A. Gil. – **D. Prgr.:** M.w.: 10.00–05.00. – **N.:** W.: 10.00, 17.00, 22.50, 03.00. – **Nat. music:** 15.00, 18.30, 00.00. – **ANN.:** "Circuito Nacional Cubano, trasmitiendo desde su planta

CMQ

LAS CADENAS DE EMISORAS DE MAYOR PODER DE VENTA EN CUBA

A través de su SERVICIO INTERNACIONAL DE GRABACIONES DE AUDIO, pone a disposición de las emisoras de habla hispana y de aquellas que deseen trasmitir programas en español VEINTE AÑOS de experiencia radiofónica, brindándoles la oportunidad de adquirir valiosos y variados programas, escritos por autores consagrados e interpretados por un elenco artístico estelar.

- **programas de éxito comprobado**
- **novelas de gran impacto radiofónico**
- **precios mínimos, incluyendo costo de grabación**
- **exclusividad por dos años para cada programa**
- **grabaciones hechas en acetato a 33-1/3 RPM o en cinta magnetofónica a 7 ½ PPS.**

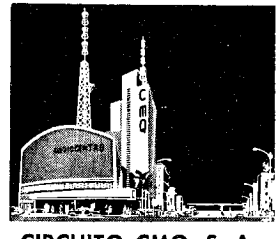
ESPERAMOS POR SU ORDEN

CMQ Radio

Pinar del Río	920 kc.
Habana	630 kc.
Onda Corta	9,670 kc.
Santa Clara	640 kc.
Camagüey	920 kc.
Ciego de Avila	900 kc.
Holguín	740 kc.
Stgo. de Cuba	630 kc.

CMQ-TV

Habana	Canal 6
Matanzas	Canal 9
Santa Clara	Canal 5
Camagüey	Canal 6
Stgo. de Cuba	Canal 2
Holguín	Canal 3



CIRCUITO CMQ, S. A.
Servicio Internacional de Grabaciones de Audio
Radiocentro - La Habana

matriz CMW 590 kc/s en la Habana, Cuba". – **INT.-SIG.:** 2 bell-strokes. – **V.** by QSL-card.
3) Av. de la Independencia y Mordazo, Habana. – **L.P.:** Mgr.: J. Gonzales. Dir. Tec.: L. Casas. **N.:** W.: 12.00 (exc. Mo.), 12.30 (exc. Mo.). Sun.: 16.30, 17.00, 23.00. – **V.** by letter.
4) Calle 25 No. 1111, Habana. – **Cable:** "Vozaire". – **D. Prgr.:** 760 kc/s 24 h. – **V.** by QSL-card.
5) Escobar 452, Habana. – **N.:** 17.00, 22.00, 03.05. – **ANN.:** "La Voz del Indio, La Primera en su Radio". – **INT.-SIG.:** s/on with Nat. Anthem and the Song "Queremo mucho".
6) San Rafael 108 2° piso, Habana. – **L.P.:** Dir. Gen.: M. A. Salas. Dir. Tec.: F. Tejero. – **N.:** W.: 17.35, 20.00, 24.00. **N. in Chinese:** 18.30 (exc. Sun.). – **V.** by QSL-card.
7) Av. Menocal 801, Habana.
8) Av. Menocal 105, Habana. – **L.P.:** Dir. Gen.: M. Fernandez. Dir Tec.: C. Estrada. – **D. Prgr.:** W. 10.27(Tues. 10.15)–06.00. Sun. 10.15–05.00. – **N.:** 10.30, 13.00(W), 17.00(W), 23.00(W), 05.45(W). – **ANN.:** "R. Progreso, La Onda de la Alegria".
9) Finley No. 4, Camagüey. – **V.** by QSL-card.
10) Consejo Corp. Columbia, Habana. – **D. Prgr.:** 14.00–04.00.
Circuto CMQ:
11) Edif. Radiocentro, Habana. – **L.P.:** Pres. Goar Mestre. Ad. Pres.: Abel Mestre. Vice-Pres.: Manuel Cores (Prgr.), Arturo Chabau (Sale), René Puig (Personal), R. L. Guiral (Tec.). International Sce.: Rigoberto M. Rodriguez, Ass. Director. – **N.:** 10.30, 15.53(Sun.), 16.54(W), 17.25, 22.55(W), 23.23(W), 01.35(W), 03.30. – **Relay st.:** CMAQ: Pinar del Rio, CMHQ: Sta. Clara las Villas, CMJV: C. de Avila Camagüey, CMJL: Camagüey, CMKU: Stgo. de Cuba, CMKJ: Holguin. – **ANN.:** "CMQ desde Radiocentro Habana". – **INT.-SIG.:** "Canto Siboney" played on organ. – **V.** by QSL-card. – **PUB.:** Monthly. By request.
12) Estrada Palma 658, Stgo. de Cuba.
13) Apt. 541, Habana. – **L.P.:** Dir. Gen.: S. V. Cayro. Dir. Tec.: J. Inclan. – **D. Prgr.:** N.: 12.30, 15.00, 17.30, 18.21, 00.00, 00.30, 02.50, 04.45. – **ANN.:** "R. Aeropuerto – Frequencia de Oro – Emisora Internacional". – **V.** by QSL-card or letter.
14) San José 104, Habana. – **L.P.:** Mgr.: H. R. Ranere. – On 790 kc/s: 11.15–07.00. – **N.:** 12.45.
Medium Waves:
15) **R. Garcia Cerra,** Apt. 232, Habana. – **D. Prgr.:** 12.25–05.00 in Spanish, English: **N.:** 23.50. FM: 101.1 mc/s 0.25 kW. – **V.** by letter.
16) **R. Mambi,** Prado 107, Habana. – **L.P.:** Dir. Gen.: A. F. Cuzan. Dir. Tec.: C. E. Castro. – **D. Prgr.:** 12.00–05.00. – **INT.-SIG.:** Canto el Mambi. – **ANN.:** "Aqui R. Mambi".
17) **Union Radio,** Apt. 3237, Habana. – **L.P.:** Dir. Gen.: F. C. Hermida. Dir. Tec.: L. V. Perez. – **D. Prgr.:** W. 10.56–05.57. Sun. 10.56–05.00. – **N.:** 11.00, 17.00(W), 23.00(W). – **ANN.:** "Union Radio y su cadena de Emisoras IS Bella Cubana".
18) **Cadena Nacional,** Radiocentro, Calle 312, Vedado, Habana. – **L.P.:** Dir. Gen.: A. H. Cata. – **D. Prgr.:** 12.00–05.00. – **V.** by letter.
19) **R. Continental,** Prado 206, Habana. – **L.P.:** Dir.: Dr. F. Hernandez. – **D. Prgr.:** 24 h. – **INT.-SIG.:** "Maria La O". – **ANN.:** "1010 R. Continental La Onda que no descansa".
20) **Espacio Aéro,** Calle L. No. 353, Habana. – **L.P.:** Mgr.: M. del Carmen Nuñoz. – **D. Prgr.:** 12.00–06.00. – **ANN.:** "1060 La Emisora Amiga".
21) **Cadena Oriental de Radio,** R. Minuto Nacional, L. No. 353, Edif. Odontologico, Habana. – **L.P.:** Dir. Gen.: L. C. Lavar. – **D. Prgr.:** 10.00–05.00. – **V.** by QSL card or letter.
22) **R. Reloj,** Radiocentro, Habana. (Belongs to CMQ). – **D.** 24 h.
23) **Rdif. CMAB,** Maceo esq. a Rosario, Pinar del Rio.
24) **La Voz de las Villas,** Apt. 376, Sta. Clara. – **D. Prgr.:** 12.00–03.00. – **V.** by letter.
25) **Rdif. CMHT,** Camara de Comercio, S. Spiritus.
26) **Rdif. CMHS,** Agramente y Calle Jimenez, Caibarien.
27) **Rdif. CMHF,** Prado esq. a Argüelles, Cienfuegos.
28) **Cia. Insular de Radiodifusion,** Sta. Clara.
29) **Rdif. CMHK,** Heredia No. 61, Cruces.
30) **Rdif. CMHA,** M. Nicolasa Candelaria 19, Sta. Clara.
31) **Organizacion Insular de Radio,** Ave Raucho Boyeros y Mordazo, Habana. (CHMO tr. from Sta. Clara).
32) **Rdif. CMHC,** Porque Vidal No. 1, Sta. Clara.
33) **Rdif. CMHY,** B y C, Cabaiguan.
34) **Rdif. CMJY,** Avellaneda 215, Camagüey.
35) **Noticero R. Legendario,** Republica 286, Camagüey.
36) **Rdif. CMFA,** Camagüey.
37) **Cadena Camagüeyana de Radio,** Independencia 308, Camagüey.
38) **R. Camagüey,** Ave del Aeropuerto D., Camagüey.
39) **R. Oriente,** Aguilera 511, Stgo. de Cuba. – **L.P.:** Dir. Gen.: Dr. J. M. Berenguer, Mestre Mgr.: R. S. Echererria. Dir. Prgr.: R. L. Morales. Dir. Tec.: O. M. Veliz. – **D. Prgr.:** 10.30–05.00.
40) **Rdif. CMDQ,** Hotel Gtan Casino, Victoria de las Tunas.
41) **Rdif. CMDW,** Aguilera 559, Stgo. de Cuba.
42) **Rdif. CMKR,** B. Maso 515, Stgo. de Cuba.
43) **Rdif. CMDL,** M. Gomez e Frexes y Aguilera, Holguin.
44) **Red Provincial de Radio,** Villa Maria, Stgo. de Cuba.
45) **Rdif. CMKT,** Victoria de las Tunas

★ DOMINICAN REPUBLIC ★

L.T.: GMT÷5 h. – **L.:** Spanish. – **Rcvrs.:** 150.000. (All st. comm.).
DIRECCION GENERAL DE TELECOMUNICACIONES
ADDR.: Ciudad Trujillo, Distrito de Santo Domingo.
STATIONS: approx. 11.00–05.00 (exc. where indicated).
Short Waves: Call HI---

Call	kc/s	m	kW		Station – h. of tr.
1) 3C	2440	122.8	1		Casa Puerto Rico Inc.
2) 1Z*	3245	92.44	0.5	1350	Broadc. Nacional: 12.00–06.00
3) 7T	3285	91.32	1	**	La Voz Dominicana: 11.00–04.00
4) 5N	3305	90.77	1	1220	Emisora HI5N: 11.35–04.05
5) 2S	3345	89.68	0.2	1400	Onda Musical
6) 3H	3355	89.42	0.5	1490	La Voz de la Alegria
7) 8V	3375	88.89	0.5		Diocesis de la Vega
8) 2D	3392	88.45	1		Emisora HI2D: 00.00–04.00
8a) 1N	3530	85.00		1220	La Voz de la Reeleccion: 00.00–03.00
9) 5C	4875	61.54	0.25	1250	La Voz del Progreso: 11.00–03.00
10) 5B	4890	61.35	0.5	1330	Emis. HI5B/HI4B: 11.00–03.00
11) 9B	4910	61.10	0.5	1050	Emisoras HI9B/HI8B
12) 3K	4980	60.25	1	1450	Ondas del Yaque: 11.00–03.00
13) 8Z	5030	59.64	0.2	820	R. Santiago
14) 2L	5055	59.36	0.5	790	La Voz del Tropico
3) 4T	5970	50.25	7.5	**	La Voz Dominicana: as 3285
15) 8U	6020	49.83	1	1240	Broadc. Tropical: 11.00–03.00
16) 1J	6025	49.79	0.1	610	La Voz de Oriente: 16.45–02.00
2) 1Z	6115	49.06	1	1350	Broadc. Nacional: 12.00–06.00
17) 1G	6130	48.94	0.25	950	R.difusora HIG
13) 8Z	6140	48.86	0.5	820	R. Santiago
18) 1R	6175	48.58	0.2	1450	La Voz de Fundacion: 16.00–24.00
17) 2G*	9590	31.28	0.25	950	R.difusora HIG
3) 2T	9735	30.82	7.5	**	La Voz Dominicana: as 3285

*=inactive. ** 620/1360/1380 kc/s.
Medium Waves: Call HI---. °=Shortwave.

Call	kc/s	kW	Call	kc/s	kW	Call	kc/s	kW
16) 1J	°610	0.5	15) 9U	°1240	1	20) 1L	1400	0.25
3) 3T	°620	10	9) 4C	°1250	1/0.1	5) T	°1400	0.25
14) 1L	°790	0.5	19) 3V	1310	0.5	21) 2A	1440	0.04
13) 9Z	°820	1/0.1	10) 4B	°1330	0.5	22) 5K	1440	0.25
17) G	°950	0.25	2) Z	°1350	1	18) 2R	°1450	0.25
11) 8B	°1050	1/0.1	3) 8T	°1360	1/0.1	12) 2K	°1450	1
8a) 1N	°1220	0.75	3) 6T	°1380	1	6) 2H	°1490	0.2
4) N	°1220	1				23) 1A	1490	0.25

Short waves:
1) La Romano.
2) Edificio Copello, Calle el Conde, Ci. Trujillo. – **ANN.:** "Transmiten Emisora HIZ y HI1Z, C. Trujillo, La Republica Dominicana".
3) Av. Ci. de Miami No. 8, Ci. Trujillo. – **Cable:** "Dominicana". – **English:** 02.00–02.15. – **ANN.:** "Al Servicio de la Cultura y el Progreso en general, transmite La Voz Dominicana, desde Ciudad Trujillo, Distrito de Santo Domingo, Capital de la República Dominicana". – **V.** by QSL-card.
4) Apt. 287, Ci. Trujillo. – **Cable:** "Rahin". – **L.P.:** Dir. Gen.: H. L. Diaz. Mgr.: P. P. Bonilla P. Dir. Prgr.: M. Reynoso. Dir. Tec.: J. Salazar. – **D. Prgr.:** N.: 12.05, 22.50, 04.00. **Nat. Music:** 14.50.
5) Calle Dr. Faura No. 4, Ci. Trujillo.
6) Calle Real No. 119 (Villa Duarte), Ci. Trujillo.
7) Cultural Religioso, Santo Cerro, La Vega.
8) Edificio Generalisimo 2da Planta, Santiago.
8a) Calle Presidente Trujillo, Santiago de los Caballeros.
9) Calle Presidente Trujillo No. 41, San Francisco de Macoris.
10) Calle Maximo Gomez No. 14, Santiago, de los Caballeros.
11) Calle 30 de Marzo No. 54, Santiago de los Caballeros. – **V.** by QSL-card.
12) Edificio Fernandez, Santiago de los Caballeros. – **V.** by QSL-card.
13) Calle 30 de Marzo No. 35, Santiago de los Caballeros.
14) Calle Abreu No. 30, Ci. Trujillo. – **V.** by QSL-card.
15) Apt. 403, Puerto Plata. – **L.P.:** Dir.: L. A. Pelegrin. – **V.** by QSL-card.
16) Calle Sanchez No. 135, San Pedro de Macoris. – **V.** by QSL-card.
17) Av. Mella No. 150, Ci. Trujillo. – **ANN.:** "Radiodifusora Nacional, Emisora HIG, Rep. Dominicana".
18) Hotel S. Cristobal, S. Cristobal. – **ANN.:** "Transmite la Voz de Fundacion desde San Cristobal, Rep. Dominicana". – **V.** by QSL-card.
Medium waves:
19) **La Voz del Sur-Radio Bani,** Calle U. Guerreo 12, Bani.
20) **La Voz del Camu,** Av. José Trujillo Valdez 2, La Vega.
21) **La Voz de Quisqueya,** Salcedo.
22) **Emisoras Unidas,** Calle Arz. Merino, Ci. Trujillo.
23) **La Voz del Cibao,** Calle Cardona 81, Moca.

★ EL SALVADOR ★

L.T.: GMT÷6 h. – **L.:** Spanish. – **Rcvrs.:** 30.000.
All stations comm. exc. R. Nacional.

GOVERNMENT DEPT. FOR BROADCASTING.
Ministerio del Interior, Palacio Nacional, San Salvador.
STATIONS:
Short Waves: Call: YS---. *=inactive.

	Call	kc/s	m	kW	m.w.	Station – h. of tr.
1)	C	4740	63.23	1	1015	Ondas Populares y Deportivas: 11.00–06.00
2)	U	4780	62.76	1	1050	R. Mil Cincuenta: 12.00–07.00
3)	DR	4800	62.50	1	820	R. Tropical: 12.30–14.30, 18.00–04.00
4)	ABC*	4820	62.24	5	560	R.emisora Salvadoreña.
5)	CB	4840	61.98	0.5	1175	La Voz del Pacifico: 12.00–05.00
6)	S	6010	49.92	5	655	R. Nac. de El Salvador: 18.00–04.00
7)	R	6050	49.59	5	1330	La Voz de El Salvador: 12.00–05.00
1)	C	6095	49.22	1	1015	as 4740: 11.00–06.00
4)	ABC*	6130	48.94	1	560	R.emisora Salvadoreña.
8)	HQ	6170	48.62	0.15	950	R.Progreso: 16.00–20.00, 23.00–05.00
9)	MA	6180	48.54	0.5	1230	La Voz Suprema de Occidente: 12.00–04.00
2)	UA	6190	48.47	1	1050	R. Mil Cincuenta: 12.00–07.00
10)	O	*9515	31.53	1	870	La Voz de la Democracia.
6)	S	9555	31.40	5	655	R. Nac. de El Salvador: 18.00–04.00
11)	Y	*11725	25.58	1	970	R. Victoria
12)	AXA*	11950	25.10	0.3	800	R. YSAX

Medium Waves: Call YS---. °=Short Wave.

	Call	kc/s	kW		Call	kc/s	kW		Call	kc/s	kW
4)	ABC	°560	5	15)	W	930	5	18)	CF	1150	1
6)	S	°655	10	8)	HQ	°950	0.15	5)	CB	°1175	1
13)	QR	700	2.5	11)	Y	°970	1	19)	HP	1200	0.25
12)	AX	°800	4	16)	DF	990	50	9)	MA	°1230	1
3)	DR	°820	1	1)	C	°1015	1	20)	I	1250	3
14)	F	840	0.5	2)	U	°1050	10	7)	R	°1330	5
10)	O	°870	1	17)	EB	1075	10	21)	JA	1400	2.5

FM: mc/s kW mc/s kW mc/s kW mc/s kW
15) 88.1 5 2) 90.0 0.25 6) 150.0 0.5 6) 170.0 0.5
12) 101.7
St. 2) 4) 12) & 16) owned by R. Televisión YSU. S.A., San Salvador.
Short Waves:
1) 14a Av. Norte, Frente a la Iglesia de Concepcion, S. Salvador. – ANN.: "Esta es YSC, R. 1015 Ondas Populares y Deportivas en S. Salvador, Centro America, Laboremos por la Paz, la Cultura y el Deporte".
2) Av. Cuscatlan y 12a Calle Poniente No. 2, Apt. Postal 1050, S. Salvador. – V. by letter.
3) Av. Independencia Norte 6, Santa Ana. – ANN.: "YSDR R. Tropical en Santa Ana, El Salvador, Centro America". – INT.-SIG.: Gong and Xylophone.
4) Av. Morazan No. 3, S. Miguel. – D. Prgr.: 12.00–05.00 (m.w.).
5) 6a Av. Norte 15, Barrio El Angel, Sonsonate. – L.P.: Dir.: F. Guidel G. Dir. Tec.: J. Martinez. – D. Prgr.: N.: 13.00, 18.00, 24.00. Nat. Music: 15.00, 20.00. Mbg.: 23.00. – English: 04.00–05.00. – V. by letter. – F.PL.: Power 5 kW. Relay st. 1 kW.
6) "Alma Cuscatleca", S. Salvador. – D. Prgr.: N.: 18.05, 02.00, 03.00. ANN.: "Transmite R. Nacional de El Salvador en la America Central". – INT.-SIG.: Four notes on Xylophone. – V. by QSL-card and prgr.sched.
7) 4a Av. Norte No. 16, S. Salvador. – V. by letter.
8) 10a Calle Poniente No. 6, Bis, S. Miguel.
9) Apt. Postal 98, Santa Ana. – ANN.: "Transmite YSMA La Voz Suprema de Occidente desde Santa Ana, Republica de El Salvador en la América Central". – V. by letter.
10) 6a Calle Oriente No. 28, S. Salvador. – D. Prgr.: m.w.: 12.00–04.00. – V. by QSL-card.
11) Calle Gerardo Barrios No. 43, S. Salvador.
Medium Waves:
12) La Voz Panamericana, 2a Av. Norte No. 319, S. Salvador. – Cable: YSAX. – L.P.: Dir. Gen.: O. A. Bolaños. Dir. Tec.: J. V. Moran. – D. Prgr.: 12.00–05.00. N.: 12.30, 19.30. Nat. Music: W. 12.00.
13) R. Morazan, Ci. de Mejicanos. – D. Prgr.: 12.00–05.00.
14) R. Vanguardia, S. Salvador. – D. Prgr.: 18.00–20.00, 00.00–04.00.
15) R. del Pueblo, Colonia Santa Lucia No. 43, bis, Santa Ana. – D. Prgr.: 12.00–05.00. – V. by QSL-card.
16) La Voz del Tropico, 4a Av. Norte No. 16, S. Salvador.
17) La Voz de Latino América, S. Salvador.
18) Ondas Orientales, San Miguel.
19) R. Ciros, San Salvador.
20) R. Emperador, Calle Arce 28, S. Salvador.
21) La Onda de la Alegria, Radio 14.00, Usulutan. – D. Prgr.: 12.00–15.00, 17.00–20.00, 00.00–04.00. – V. by letter.

★ GUADELOUPE (French West Indies) ★

L.T.: GMT÷4 h. – L.: French. – Rcvrs.: 15.000.
RADIO GUADELOUPE (Go.). – ADDR.: Basse-Terre.
L.P.: Dir.: Ch. J. Rivière.
HOME SERVICE: 650 kc/s 462 m 1 kW – 1420 kc/s 211 m 0.05 kW: 10.20–11.30, 16.15–17.50, 22.45–01.00. – N.: 10.30, 17.00, 24.00. – Mbg.: Sat.–Mo. & Thurs. 17.15–17.45. – Wrp.: 11.00, 17.00, 24.00. ANN.: "Ici R. Guadeloupe, Poste National Français". – INT.-SIG.: Guitar. – V. by QSL-card or letter. R.p.

★ GUATEMALA ★

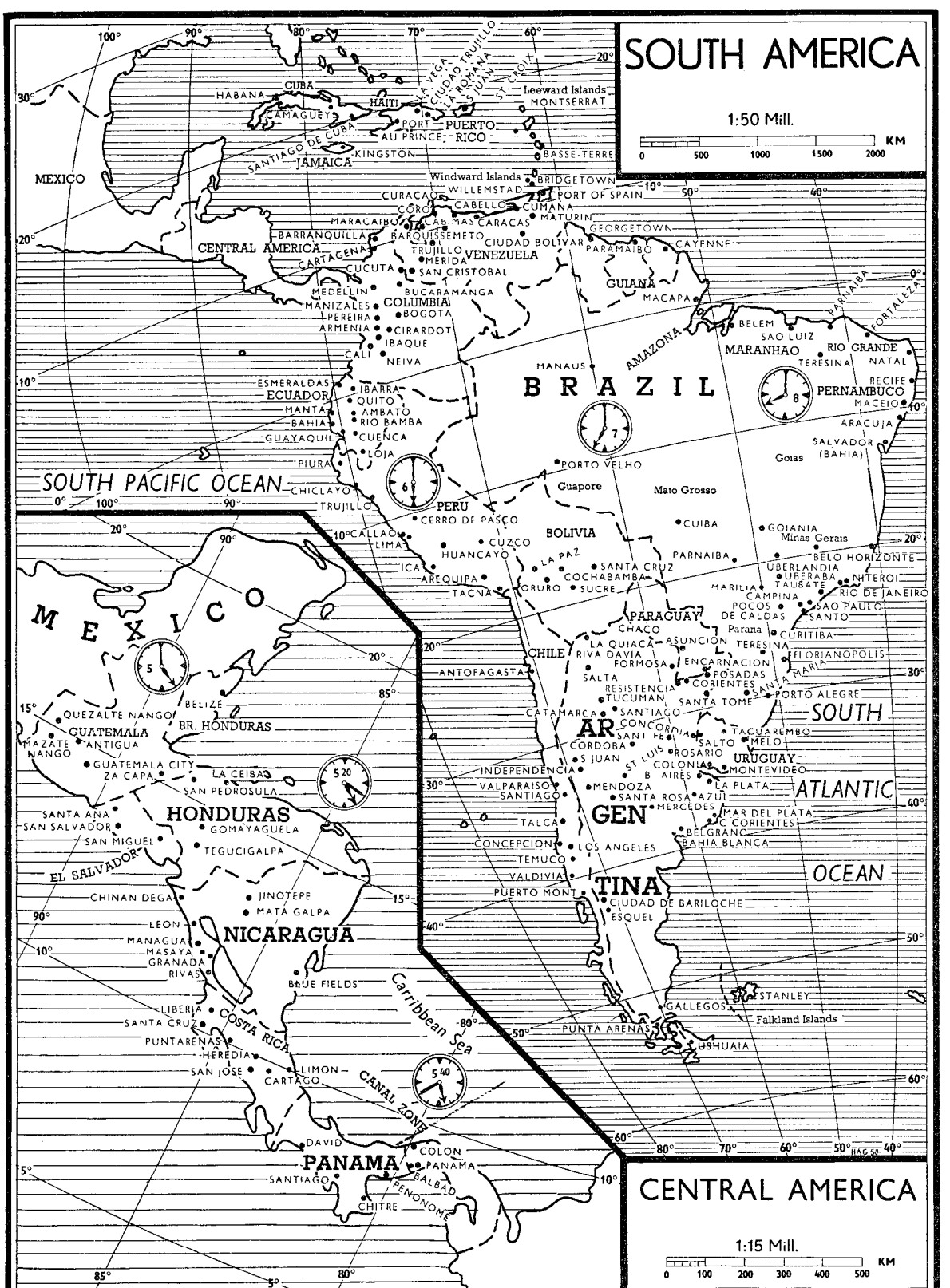
L.T.: GMT÷6 h. – L.: Spanish. – Rcvrs.: 350.000.
DIRECCION GENERAL DE RADIODIFUSION
ADDR.: Edificio la Tipografia Nacional, Calle "18 de Septiembre" y 7a. Av. Sur., Guatemala.
All stations comm. exc. R. Nacional (Go.) & R. Cultural (Rel.)
STATIONS:
Short Waves: Call TG---.

	Call	kc/s	m	kW	m.w.	Station – h. of tr.
1)	ZB	3355	89.42	0.09	1170	R. Oriental
2)	LAB	4900	61.22	0.02	1245	R. Victoria: see below
3)	NA	5952	50.40	5	720	R. Cultural: see below
2)	LA	5970	50.25	0.5	1245	R. Victoria: as 4900 kc/s
4)	AR	5980	50.17	1	1270	R. Quetzal: W. 12.50–06.00 Sun. 13.00–02.00
5)	JA	5990	50.08	3	880	R. Nuevo Mundo: 12.00–05.00
6)	TA	6000	50.00	0.25	1390	R. Sonora: 11.55–06.00
7)	DA	6020	49.83	1	1070	La Voz de Occidente: 11.00–05.00
8)	TQ	6030	49.75	2	810	R. Internacional: 14.00–02.00
9)	CO	6040	49.67	0.5		La Voz del Tropico
10)	XB	6050	49.59	0.8	1050	R. Centro Musical: 12.00–04.00
11)	XX	6060	49.50	1.5	850	R. Ciro's: 12.30–06.00
12)	PA	6070	49.42	0.25	575	R. Palmeras: see below
13)	CB	6080	49.34	0.25	1190	R. Colonial
14)	OA	6100	49.18	0.3	1140	La Voz de las Americas: 11.00–07.00
15)	QA	6110	49.10	1	**	R. Nacional: W. 12.55–04.00 Sun. 15.55–03.00
16)	HC	6140	48.86	0.5	780	R. Universal: W. 12.00–06.00 Sun. 14.30–04.30
17)	AZ	6150	48.78	0.5	950	R. Continental: 12.00–06.00
1)	ZA	6160	48.70	0.25	1170	R. Oriental
18)	WB	6180	48.54	1	*	R. Nacional: 11.55–06.00
19)	KN	6200	48.39	0.1	1100	R. Novedades: W. 13.00–06.00 Sun. 20.00–02.00
3)	NB	9668	31.03	5	720	R. Cultural: see below
18)	WA	9760	30.74	10	*	R. Nacional: 11.55–06.00
15)	QB	11700	25.64	0.3	**	R. Nacional: as 6110 kc/s
20)	CX	11750	25.53	0.35	1080	R. Cristal: 14.00–16.00 17.30–21.00, 00.00–04.00
3)	NC	11850	25.32	5	720	R. Cultural: see below

*) 640/1520 kc/s. **) 860/1310 kc/s.
Medium Waves: °=Short Waves.

	Call	kc/s	kW		Call	kc/s	kW		Call	kc/s	kW
12)	TGPR	°575	0.25	24)	TGTL	920	5	28)	TGRL	1180	1
21)	TGY	590	1	17)	TGAX	°950	1	13)	TGCA	°1190	0.25
18)	TGW	°640	10	25)	TGCQ	980	1	29)	TGED	1210	0.5
22)	TGHR	700	0.3	26)	TGUX	1020	1.5	2)	TGL	°1245	0.45
3)	TGN	°720	5	10)	TGXA	°1050	0.6	4)	TGAQ	°1270	1
23)	TGRF	750	0.5	27)	TGAF	1060	2	30)	TGMU	1300	0.2
16)	TGHB	°780	1	7)	TGD	°1070	2	15)	TGQ	°1310	1
8)	TGTO	°810	5	20)	TGC	°1080	0.35	6)	TGT	°1390	0.25
11)	TGX	°850	1.5	19)	TGK	°1100	0.8	31)	TGMS	1450	0.5
15)	TGSM	°860	0.25	14)	TGO	°1140	0.8	32)	TGAG	1460	0.5
5)	TGJ	°880	5	1)	TGZ	°1170	0.5	18)	TGWC	°1520	1

FM: 14) TGO-FM 107.75 mc/s 0.04 kW
Short Waves:
1) Zacapa.
2) 8a Calle Poniente 18, Mazatenango.
3) Apt. 601, Guatemala (Owned by Central American Mission, 3611 Congress Ave., Dallas 19, Texas, U.S.A.). – L.P.: St. Dir. & Dir. Prgr.: A. Platt. Dir. Tec.: G. Liebig. – D. Prgr.: Spanish: On 720/5952 kc/s: 12.15–14.00, 18.00–20.30, 22.30–03.00. English: On 5952/9668 kc/s: 03.00–04.00. – V. by QSL-card or letter. R.p.
4) 12. Av. 26–27, Z-5, Guatemala. – ANN.: "Guatemala, Aqui es Radio Quetzal 1270 kc/s onda larga, 5980 kc/s onda corta en banda de 49 metros".
5) 6a Av. 10–45, Z-1, Guatemala. – ANN.: "Radio Nuevo Mundo, Ciudad de Guatemala". – V. by QSL-card.
6) Apt. 401, Guatemala. – ANN.: "Radio Sonora la emisora que da la hora 1390 kc/s onda larga, 6000 kc/s onda corta en 49 metros".
7) Av. Independencia 8, Quezaltenango.
8) 5a. Av. 10–35, Z-1, Guatemala. – ANN.: "La Voz de la Capital


SOUTH AMERICA
1:50 Mill.
KM
0 500 1000 1500 2000
CENTRAL AMERICA
1:15 Mill.
KM
0 100 200 300 400 500
MEXICO
CUBA
HABANA
CAMAGUEY
SANTIAGO DE CUBA
HAITI
PORT AU PRINCE
PUERTO RICO
JAMAICA
KINGSTON
LA VEGA
CIUDAD TRUJILLO
LA ROMANA
SAN JUAN
ST. CROIX
Leeward Islands
MONTSERRAT
BASSE-TERRE
Windward Islands
BRIDGETOWN
WILLEMSTAD
PORT OF SPAIN
CURACAO
CORO
CABELLO
CUMANA
MATURIN
MARACAIBO
CABIMAS
CARACAS
BARRANQUILLA
BARQUISSEMETO
CIUDAD BOLIVAR
GEORGETOWN
CENTRAL AMERICA
CARTAGENA
TRUJILLO
MERIDA
VENEZUELA
PARAMAIBO
CAYENNE
CUCUTA
SAN CRISTOBAL
GUIANA
MEDELLIN
BUCARAMANGA
MANIZALES
COLUMBIA
BOGOTA
PEREIRA
ARMENIA
CIRARDOT
IBAQUE
CALI
NEIVA
MACAPA
PANAIBA
FORTALEZA
BELEM
SAO LUIZ
MARANHAO
RIO GRANDE
NATAL
TERESINA
RECIFE
PERNAMBUCO
MACEIO
ARACUJA
SALVADOR (BAHIA)
Goias
AMAZONA
MANAUS
BRAZIL
ESMERALDAS
ECUADOR
IBARRA
QUITO
AMBATO
RIO BAMBA
MANTA
BAHIA
GUAYAQUIL
CUENCA
LOJA
PIURA
SOUTH PACIFIC OCEAN
CHICLAYO
TRUJILLO
PORTO VELHO
Guapore
Mato Grosso
PERU
CERRO DE PASCO
CUZCO
BOLIVIA
CUIBA
GOIANIA
Minas Gerais
CALLAO
LIMA
HUANCAYO
LA PAZ
SANTA CRUZ
PARNAIBA
BELO HORIZONTE
ICA
AREQUIPA
COCHABAMBA
UBERLANDIA
UBERABA
TAUBATE
NITEROI
TACNA
ORURO
SUCRE
MARILIA
CAMPINA
RIO DE JANEIRO
POCOS DE CALDAS
SAO PAULO
SANTOS
PARAGUAY
CHACO
CURITIBA
Parana
ASUNCION
TERESINA
LA QUIACA
RIVA DAVIA
FLORIANOPOLIS
CHILE
FORMOSA
ENCARNACION
SANTA MARIA
ANTOFAGASTA
SALTA
POSADAS
RESISTENCIA
CORIENTES
TUCUMAN
SANTA TOME
PORTO ALEGRE
CATAMARCA
SANTIAGO
SOUTH
CONCORDIA
TACUAREMBO
SANT FE
SALTO
MELO
CORDOBA
ST LUIS
ROSARIO
URUGUAY
S JUAN
COLONIA
MONTEVIDEO
INDEPENDENCIA
B AIRES
LA PLATA
ATLANTIC
VALPARAISO
MENDOZA
SANTIAGO
SANTA ROSA
AZUL
MERCEDES
MAR DEL PLATA
GEN
TALCA
C CORIENTES
BELGRANO
BAHIA BLANCA
CONCEPCION
LOS ANGELES
TEMUCO
OCEAN
VALDIVIA
PUERTO MONT
TINA
CIUDAD DE BARILOCHE
ESQUEL
MEXICO
QUEZALTE NANGO
BELIZE
BR. HONDURAS
GUATEMALA
MAZATE NANGO
ANTIGUA
GUATEMALA CITY
ZA CAPA
LA CEIBA
SAN PEDROSULA
SANTA ANA
SAN SALVADOR
HONDURAS
GOMAYAGUELA
SAN MIGUEL
TEGUCIGALPA
EL SALVADOR
CHINAN DEGA
JINOTEPE
MATÁ GALPA
LEON
NICARAGUA
MANAGUA
MASAYA
GRANADA
RIVAS
BLUE FIELDS
Carribbean Sea
LIBERIA
SANTA CRUZ
COSTA RICA
PUNTARENAS
HEREDIA
SAN JOSE
LIMON
CARTAGO
CANAL ZONE
DAVID
COLON
PANAMA
SANTIAGO
BALBAD
PENONOME
CHITRE
STANLEY
GALLEGOS
Falkland Islands
PUNTA ARENAS
USHUAIA

desde Guatemala". **INT.-SIG.:** Electrical Xylophone. – **V.** by QSL-card.
9) 7a Av. y 4a Calle, Coatepeque.
10) Pasaje Aycinena 8–27, Z-1, Guatemala. – **ANN.:** "TGXA Radio Centro Musical 1050 kc/s onda larga, 6050 kc/s en banda internacional de 49 metros". – **V.** by QSL-card or letter.
11) 3a Av. 19–45, Z-1, Guatemala. – **ANN.:** "Radio Ciros la emisora musical de Guatemala onda larga 850 kc/s TGX, onda corta 6060 kc/s TGXX". – **V.** by QSL-card or letter.
12) 6a Calle Oriente, 1-A, Escuintla. – **D. Prgr.:** W. 12.55–19.30, 01.30–03.00. Sun. 13.25–19.30, 00.45–03.00.
13) Calle Portocarrero 6, Antigua.
14) 2a Av. 13–39, Z-1, Guatemala. – **ANN.:** "La Voz de las Americas saludando toda America desde la Ciudad de Guatemala". – **V.** by QSL-card or letter.
15) 5a Av. Norte No. 26, Quezaltenango (TGSM: Palacio Maya, San Marcos). – **ANN.:** "Dios, Patria y Libertad esta es TGQ, TGQA y TGQB, Radio Nacional de Quezaltenango". – **V.** by QSL-card. letter. – **PUB.:** Monthly prgr.sched. free on request.
16) 7a Av., 14–74, Z-1, Guatemala. – **ANN.:** "Radio Universal y Radio Central en cadena". – **V.** by QSL-card or letter.
17) 13 Calle, 12–26, Z-1, Guatemala. – **ANN.:** "Difunde la Emisora mas perfecta y de alta calidad, Radio Continental, una emision para toda la República". – **V.** by QSL-card or letter.
18) Calle 18 Septiembre y 7a Av., Z-1, Guatemala. – **L.P.:** Dir. Gen., Dir. For. Rel.: J. M. Lenhoff. Vice Dir. & Dir. Adm.: J. A. G. Andrade. Dir. Tec.: H. V. Peña. Dir. Prgr.: C. T. Vielmann. – **ANN.:** "Radio Nacional TGW, TGWA, TGWB, TGWC". – **V.** by QSL-card or letter. – **F.PL.:** Two 50 kW m.w. tr., two 20 kW s.w. tr.
19) 9a Calle "A", 4–50, Z-1, Guatemala. – **ANN.:** "TGK en la Ciudad de Guatemala. Radio Novedades 1100 kc/s onda larga, 6200 kc/s onda corta en la banda internacional de 49 m". **V.** by QSL-card.
20) 9a Av., 9–30, Z-1, Guatemala. – **D. Prgr.:** 14.00–16.00, 17.30–21.30, 00.00–04.00.

Medium Waves:
21) **R. Progreso,** Calle "Martii" 10–39, Z-2, Guatemala.
22) **R. A.B.C.,** 8a Av., 3–30, Z-1, Guatemala.
23) **R. Faro Aviateca,** 2a Calle, 6–33, Guatemala.
24) **La Voz de la Telefunken,** 12 Calle 4–16, Z-1, Guatemala. – **Cable:** "Telefunken". – **L.P.:** Dir. Gen.: E. Mayorga L. Mgr.: W. W. Proesamer. Dir. Tec.: H. Möller A. – **D. Prgr.:** 12.30–06.00.
25) **R. Central,** 7a Av., 14–74, Z-1, Guatemala.
26) **R. Panamericana,** 13 Av., 12–67, Z-1, Guatemala. – **D. Prgr.:** W. 11.55–06.00. Sun. 11.55–05.00.
27) **R. Indiana,** Mazatenango.
28) **R. Landivar,** Quezaltenango. – **L.P.:** Dir. Gen. & Dir. Prgr.: J. L. del Cid. Mgr., Owner & Dir. Tec.: H. A. Diaz. – **D. Prgr.:** 12.00–04.00. – **V.** by letter.
29) **La Voz de la Capitol,** 3a Av., 13–07, Z-1, Guatemala.
30) **La Voz de la Buena Musica,** 13 Calle 9–62, Guatemala. – **L.P.:** Dir. Gen. & Tec.: M. R. Wunderlich S. – **D. Prgr.:** 13.00–04.30.
31) **R. Nacional,** 4a Av. y 8a Calle, Mazatenango.
32) **La Voz de Huehuetenango,** Huehuetenango.

★ HAITI ★

L.T.: GMT÷5h. **L.:** French, Creole. – **Revrs.:** 20.000.
Special Abbreviations: LV=La Voix. WI=West Indies.
STATIONS: Short Waves: Call: 4V––. *=inactive.

Call	kc/s	m	kW	m.w.	Name – h. of tr.
1) U	3322	90.31	0.25		R.dif. 4VU/4VI
2) GS	5020	59.76	0.4	755	R. Indépendance: 11.00–14.00 17.00–20.00, 23.00–02 30
3) PM	5040	59 52	0.225		LV du Nord Ouest: 11.00–19.00 23.00–03.00
4) RM	5060	59.29	0.4		LV des Gonaives: 11.00–13.00, 17.00–19.00, 22.00–03.00
5) CB	5750	52.18	0.3		LV du Sud: 19.30–02.30
6) B	5985	50.13	7.5	1080	R. Commerce: 22.00–03.30
7) E	6100	49.18	0.05	1040	LV Evangelique: see below
8) WA	6155	48.74	0.15		R. Citadelle: 12.00–15.00 18.30–03.00
9) ES	6178	48.55	0.5		LV de St. Marc: 11.00–01.00
10)	6195	48.43	0.54		LV de la Vie Marie: 11.30–12.00 22.15–23.30
11) HW	6200	48.39	10	1325	R. Haiti: 11.00–04.00
12) CP	6220	48.23	0.3	1490	LV du Nord: 12.00–15.00 20.30–01.30
6) C	9545	31.43	7.5	1080	R. Commerce: 11.00–14.00 Sun. 12.00–24.00
7) WI	9635	31.14	0.3		LV Evangelique: see below
7) EH	9760	30.74	4		LV Evangelique: see below
7) EH	9770	30.71	4		LV Evangelique: see below
7) WI	11850	25.32	0.3		LV Evangelique: see below
11) RW	15240	19.69	1.5	1325	R. Haiti: 11.00–04.00
7) WI	17700	16.95	0.3		LV Evangelique: see below
7) WI	21525	13.94	0.3		LV Evangelique: see below

Medium Waves: °=Short Waves.

Call	kc/s	kW	Call	kc/s	kW	Call	kc/s	kW
13)	590	0.065	6) A	°1080	1.2	11) 4VW	°1325	1
1) I	°755	1	16)	1145		19) S	1385	1
14)	980		17)	1185		20) GM	1430	1
15) P	1010	0.25	18) M	1250	1	12) EA	°1490	0.6
7) EC	°1040	0.4						

Short Waves:
1) P.O. Box 71, Cayes.
2) Gonaives. – **ANN.:** "Ici Radio Indépendance, Poste 4VGS à Gonaives, Rép. d'Haiti, Grandes Antilles". – **V.** by QSL-card.
3) Port de Paix.
4) P.O. Box 112, Gonaives. – **ANN.: F.:** "Ici la Voix des Gonaives, Radiodiffusion populaire émettant des Gonaives, Haiti, Grandes Antilles." – **V.** by letter.
5) Cayes. – **L.P.:** Dir. Gen. & Dir. Tec.: T. Beague. Dir. Adm.: G. Hollant. Dir. Prgr.: L. Lubin. Dir. Inf. & Foreign Rel.: J. Fougère. – **N.:** 20.00, 22.00, 00.30. Sun. 21.00. **Nat. Music:** 01.00.
6) Box 1143, Port-au-Prince. – **Cable:** "Radioco". – **D. Prgr.:** m.w.: 11.00–03.30. – **ANN.:** "Ici Radio Commerce". – **V.** by letter and QSL-card.
7) R. Station 4VEH, Box 1, Cap Haitien. – **L.P.:** Dir. Gen.: Dr. E. Erny. Mgr. & Dir. Tec.: M. E. Picazo. Dir. Adm.: Dr. W. A. Gillam. Secr.: Miss M. Stockton.

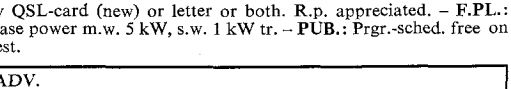
HOME SCE. in French, Creole: D. exc. Wed.
On 1040, 6100 kc/s: 17.00–19.00, 22.15–23.30. On 9635 kc/s: 17.00–19.00. On 9770 kc/s: 22.15–23.00. Sun. 18.00–20.00. – **L.L.: English:** Mo., Fri. 22.30. Tues., Sat. 11.00. – **Listeners Request:** Sat. 17.30.

FOREIGN SERVICE:
I=to So.Pa./W.I./No.Am. II=W.I. III=W.I./So.Am. IV=We.Eu./No.Am. V=Russia. VI=W.I./No.Am.

Time	Areas	Languages	m.b.
09.30–11.00a)	I	English	49–31–25
11.00–12.00b)	II	French/Creole	49–31–25
12.00–13.00c)	III	Spanish	49–31–25
13.00–15.30d)	II	English	49–31–25
22.15–23.45e)	II	French/Creole	49–31–16
23.45–01.00e)	III	Spanish	49–31–16
01.00–03.15e, f)	IV	English	49–31–16
03.15–04.00g)	V	Russian	49–31–16
18.00–20.00h)	II	French/Creole	49–31–13
20.00–22.15h)	VI	English	49–31–13

a) Sun. 10.15–12.00. b) exc. Sun. c) Sun. 12.00–12.30. d) Sun. 12.30–14.00. Tues. 13.00–15.45. e) exc. Wed. f) Mo. 01.00–03.00. g) exc. Mo. & Wed. h) Sun. only.

English Prgr.:
Bulletin Board (Prgr. Preview & St. news): Sat. 10.45–11.00. Sun. 02.45–03.00. – **Mbg.:** Sat. 10.00, 14.30. Tues. 02.00. **DX'ers Corner:** Mo. 09.30–09.45. Tues. 02.30–02.45.
ANN.: Home Sce. F.: "Ici la Voix Evangelique des Antilles". – **Foreign Sce. E.:** "You are tuned to the Evangelistic Voice of the West Indies". – **Sp.:** "Escucha Ud. La Voz Evangelica de las Antillas". – **F.:** as Home Sce. – **INT.-SIG.:** For both services: The first bar of "Amazing Grace" by John Newton



V. by QSL-card (new) or letter or both. R.p. appreciated. – **F.PL.:** Increase power m.w. 5 kW, s.w. 1 kW tr. – **PUB.:** Prgr.-sched. free on request.

> ADV.
> The Evangelistic Voice of the West Indies is now owned and operated by the ORIENTAL MISSIONARY SOCIETY. This is an internationally known organization with missionary work in the Far East, Europe, Africa and Latin America, and is now utilizing this radio voice to reach "AROUND THE WORLD WITH THE GOSPEL".

8) Cap Haitien. – **ANN.:** "Ici Radio Citadelle, Poste 4VWA au Cap Haitien, Capitale touristique de la Rép. d'Haiti, Grandes Antilles." – **V.** by QSL-card.
9) Rue Louverture 158, St. Marc. – **L.P.:** Dir. Gen. & Dir. Tec.: E. St. Coine. Dir. Adm. & Prgr.: J. E. Eugéne. Dir. Inf.: D. Morency. **N.:** 14.00, 24.00. – **Mbg.:** 11.15, 19.15, 23.15. – **F.PL.:** 1959 1 kW. – **PUB.:** Prgr.sched. free on request.
10) Cap Haitien.
11) P.O. Box 737, Port-au-Prince. – **L.P.:** Dir. Gen.: C. R. Wiedmaier. – **ANN.:** F., E., Sp.: "Vous écoutez R. Haiti, postes 4VW,

4VWH et 4VRW". – INT.-SIG.: Gong (4 notes). – V. by QSL-card.

12) Cap Haitien. – ANN.: F.: "Ici la Voix du Nord, Poste Commercial de Radiodiffusion 4VCP, a affilié à la chaine de la Paix des Nations Unies...". – Sp.: "La Voz del Norte". E.: "The Voice of the North".
13) Port-au-Prince.
Medium Waves:
14) **Radio Carillon**, Port-au-Prince.
15) **Petionville Broadc. System**, Petionville.
16) **Radio Caribe**, Port-au-Prince. – D. Prgr.: 12.00–03.00.
17) **Radio Tropic**, Port-au-Prince.
18) **Radiodiff. Haitienne**, Ruelle Jeanty, Port-au-Prince. – D. Prgr.: 12.00–02.00.
19) **R. Port-au-Prince**, Rue Pavee, Port-au-Prince. – ANN.: "Ici Port-au-Prince, poste 4VS". – V. by letter.
20) **Magloire Broadc. Circuit**, Port-au-Prince. – D. Prgr.: 16.00–03.00.

★ HONDURAS (British) ★

L.T.: GMT÷6 h. – L.: English, Spanish. – Rcvrs.: 4000.
BRITISH HONDURAS BROADCASTING SERVICE (Go.)
ADDR.: P.O. Box 315, Belize. – L.P.: Dir.: G. V. de Freitas. Dir. Prgr.: A. H. Dickinson. Dir. Prgr.: A. L. Ayuso.
HOME SCE.: 1280 kc/s 235 m 1 kW – 3300 kc/s 90.85 m 5 kW: D. 18.00(Sun. 17.00)–19.00, 23.00–03.35(Sun. 03.45). English: 18.00–18.45, 00.00–03.30. N., Wrp.: D. 18.30, 24.00, 01.00, 03.30. – Spanish: 18.45–19.00, 23.00–24.00. N., Wrp.: 18.45, 23.45.
ANN.: E.: "This is the British Honduras Broadcasting Service". – Sp.: "Este es el Servicio Radiodifusor de Honduras Británica". – INT.-SIG.: Greensleeves. – V. by QSL-card. R.p. – PUB.: Prgr. sched. monthly. Free to local listeners. Overseas listeners prepayment of postage 10 c. pr. copy.

★ HONDURAS (Rep.) ★

L.T.: GMT÷6 h.; Su. GMT÷5½ h. – Rcvrs.: 32.000. – All st. comm.
DIRECCION GENERAL DE COMUNICACIONES ELECTRICAS, Tegucigalpa.
Short Waves: Call HR—. * = inactive.

	Call	kc/s	m	kW	m.w.	Station – h. of tr.
1)	XW-2	3210	93.46	1	1200	R. Comayaguela: 13.00–04.00
2)	LP-3	3255	92.30	0.5	610	R. America
3)	TV-2	3290	91.19	0.5	715	Union R. Hondureña: 12.00–05.00
4)	Q-2	3320	90.36	0.5	1250	R. Suyapa: 12.00–05.00
5)	VW-2	3350	89.55	0.5	580	La Voz de Centro America: 12.00–06.00
6)	OW-2	3375	88.89	1	845	R. Monserrat: 12.00–04.00
7)	NQ-2	3395	88.50	1	775	R. Morazan: 13.00–04.00
7)	NQ-3	4815	62.31	1	775	R. Morazan: 13.00–04.00
8)	QN-3	4905	61.16	0.5	1150	La Voz del Atlantico
3)	TW-3	4955	60.54	0.5	715	Union R. Hondureña: 12.00–05.00
9)	TP-3	4930	60.85	0.5	1450	La Voz de Olancho
10)	RN-4	5850	51.28	1	670	La Voz de Honduras: 12.00–05.00
11)	A-4	5957	50.36	0.5	1100	La Voz de Lempira
5)	VW-4	5972	50.22	0.5	580	La Voz de Centro America: 13.00–04.00
12)	PL-4	5995	50.04	1	1400	El Eco de Honduras: 14.00–05.00
13)	QR-4	6005	49.96	0.5	1320	La Voz del Pueblo: 13.00–05.00
2)	LP-4	6050	49.59	0.5	610	R. America
14)	YN-4	6060	49.50	0.3	740	La Voz del Merendon: 13.00–04.00
15)	MH-5	6077	49.38	0.5	1500	La Voz del Junco: 11.30–04.00
7)	NQ-4	6085	49.30	1	775	R. Morazan: 13.00–04.00
1)	XW-4	6110	49.10	0.5	1200	R. Comayaguela: 13.00–04.00
4)	Q-4	6125	48.98	1	1250	R. Suyapa: 12.00–05.00
16)	MF-4	6135	48.90	0.5	1350	La Voz del Patio: 13.00–04.00
17)	XN-4	6145	48.82	0.5	1040	R. Concordia: 02.00–05.55
3)	TW-4	6171	48.61	1	715	Union R. Hondureña: 12.00–05.00
18)	MT-4	6185	48.50	0.5	640	R. Molino Rojo: 12.00–04.00
19)	D2-4	6195	48.43	0.5		La Voz de Atlántida: 12.00–04.00
20)	RH-5	9543	31.44	0.5	1370	La Voz de Occidente
7)	NQ-5	*9670	31.02	1	775	R. Morazan
7)	NQ-6	*11860	25.08	1	775	R. Morazan
7)	NQ-8	*25710	11.67	1	775	R. Morazan

FM: 7) NQ-FM 100.0 mc/s
Medium Waves: ° = Short Wave.

Call	kc/s	kW	Call	kc/s	kW	Call	kc/s	kW
5) HRWW	°580	0.5	7) HRNQ	°775	0.5	4) HRQ	°1250	0.5
2) HRLP	°610	1	6) HROW	°845	1	13) HRQR	°1320	0.3
18) HRMT	°640	1	21) HRRN	1000	1	16) HRMF	°1350	0.5
10) HRN	°670	1	17) HRXN	°1040	0.5	20) HRRH	°1370	0.5
3) HRTV	°715	0.5	11) HRA	°1100	0.5	12) HRPX	°1400	1
14) HRYN	°740	0.5	8) HRQN	°1150	0.5	9) HRTP	°1450	0.5
			1) HRXW	°1200	0.5	15) HRMH	°1500	0.5

1) 4a Calle, Comayaguela. – V. by QSL-card.
2) Barreo La Guadalupe, Tegucigalpa, D.C.
3) Apt. 734, Tegucigalpa, D.C. – Cable: "Caribe". – ANN.: "Union Radio, desde Tegucigalpa, Honduras, Centroámerica en su receptor" V. by letter.
4) Apt. Postal No. 33, San Pedro Sula. – V. by letter.
5) Apt. 120, San Pedro Sula. – INT.-SIG.: Xylophone and gong. – V. by letter.
6) P.O. Box 253, Tegucigalpa. – Cable: "Monserrat". – ANN.: "HROW R. Monserrat, la Emisora de los Hondureños, en Tegucigalpa, Honduras, C. America". – V. by QSL-card.
7) P.O. Box 393, Tegucigalpa.
8) Barrio La Curva, Puerto Cortez.
9) Juticalpa, Olancho.
10) Av. Lempira, Tegucigalpa, D.C.
11) Tegucigalpa.
12) San Pedro Sula.
13) Av. da La Paz, Tegucigalpa.
14) Barrio Paz Barahona, San Pedro Sula. – V. by letter.
15) Santa Barbara, S.B.
16) La Ceiba, Atlántida.
17) Colonia Reforma, Tegucigalpa, D.C.
18) San Pedro Sula.
19) La Ceiba, Atlántida.
20) Santa Rosa de Copan.
21) Go. st. under construction, Tegucigalpa.

★ JAMAICA (British West Indies) ★

L.T.: GMT÷5 h. – L.: English. – Rcvrs.: 17.000.
R. JAMAICA LTD. (Go., Comm.)
ADDR.: 32, Lyndhurst Rd., Cross Roads, Kingston. – Cable: "Broadco". – L.P.: Man. Dir.: W. MacLurg. Dir. Tec.: R. Aldridge.
HOME SCE. in English: 10.00–04.10. Calypso music used in prgrs.

Mandeville	580 kc/s	5 kW		Point Galina	560 kc/s	10 kWd	
Kingston	720 –	5 –		Montego Bay	1180 –	1.2 –	
FM: Kingston	94.6 mc/s	2.5 kW:	10.00–06.00				
Christiana	90.6 –	3 –	: 10.50–04.10				

ANN.: "This is R. Jamaica and Red. Network". – V. by QSL-card.

★ LEEWARD ISLANDS (Br. West Indies) ★

L.T.: GMT÷4 h. – L.: English. – Rcvrs.: 5.000.
RADIO ANTIGUA (Go.)
ADDR.: c/o Administrator's Office, Antigua, B.W.I.
L.P.: Organizer: M. Branch. Adm.: E. A. M. John. Tec.: G. A. Thibou.
HOME SCE.: 3255 kc/s 92.16 m 0.04 kW: Mo., Wed.: 10.30–11.00, 23.00–24.00. Fri. 10.30–11.00. Sun. 20.00–21.00. – N.: 20.00. Request Prgr.: 23.00.
ANN.: "This is R. Antigua broadcasting on 3255 kilocycles or a wavelength of 92.16 m". – V. by letter. – F.PL.: 0.5 kW tr.
RADIO MONSERRAT (Go., Comm.)
ADDR.: P.O Box 201, Plymouth, Monserrat. – Cable: Radmon.
L.P.: Mgr.: D. C. Todd. Dir. Prgr.: V. S. Browne. Dir. Tec.: H. S. Maloney.
HOME SCE.: 1550 kc/s 193.5 m 0.25 kW.
W.: 00.00–02.00. Sat. also 14.00–15.00. Sun. 20.00–22.00.
ANN.: "This is R. Monserrat, the Friendly Station of the Leeward Islands, broadcasting on a frequency of 1550 kc/s in your medium wave band". – V. by letter.

★ MARTINIQUE (French West Indies) ★

L.T.: GMT÷4 h. – L.: French. – Rcvrs.: 9.000.
ADDR.: Radiodiffusion Française, Fort de France.
HOME SCE.: 1500 kc/s 200 m 1 kW: W.: 10.15–11.40, 16.15–17.45 (Sat. 19.00). Sun.: 10.45–14.15, 16.15–19.00, 22.00–02.00.
ANN.: "Ici Radio Martinique, Poste National Français".
INT.-SIG.: First six notes of "Sous les Ponts de Paris", xylophone.

★ NETHERLANDS ANTILLES ★

L.T.: GMT÷4½ h. – L.: Dutch, Papiamento, English, Spanish. – Rcvrs.: 30.000.

CURACAO

RADIO-CUROM (Association: "Curacaosche Radio Vereeniging")
ADDR.: P.O. Box 31, Willemstad, Curaçao. – Cable: Curaver. – L.P.: Dir. Gen.: C. G. Grootens. Mgr., Dir. Prgr.: A. Cloo. Dir. Adm.: Miss E. Contreras. Dir. Tec.: A. C. Quast.
HOME SCE.: PCJ-2 865 kc/s 346.8 m 10 kW.
11.00–18.00, 21.00–03.30. Sun. 13.30–17.30, 20.30–03.30. – N.: Dutch: 11.30, 17.00, 22.50, 03.25.

ANN.: E.: "This is Willemstad, Curaçao – Radio-Curom." Dutch: "U luistert naar de Curom te Willemstad, Curaçao." Papiamento: "Aki ta Curom na Willemstad, Corsow." – **INT.-SIG.:** Movements from "Piet Hein-rhapsody" (Dutch trad.). – **V.** by QSL-card. – **PUB.:** Monthly "Curom-Gids"; for members only.

RADIO HOYER (Comm.)

ADDR.: Julianaplein No. 21, Willemstad. **Cable:** Radioyer. – **L.P.:** Dir. Gen.: H. E. Hoyer. Mgr.: E. Hernandez. Dir. Tec.: S. Gilmoore.

HOME SCE.:

PJC7-1 1010 kc/s 297 m 1 kW: 09.30–03.30 (Sun. 12.30–02.30)

PJC7-2 1500 kc/s 200 m 1 kW: 12.30–03.30 (Sun. 13.30–02.30)

1010 kc/s: Spanish: 10.45, 11.50. **Dutch:** 11.15, 16.50, 22.00. **English:** 12.00. **Papiamento:** 17.40, 01.15. – **1500 kc/s: Spanish:** 13.00, 22.10. **English:** 16.30, 01.30. **Dutch:** 23.00.

ANN.: E.: The first 3 bars of Curaçao's anthem followed by: "This is station PCJ7 R. Hoyer transmitting on...". – **V.** by QSL-card.

RADIO CARIBE (Comm.)

ADDR.: Nieuwestraat 22B, Willemstad. – **L.P.:** Dir. Gen., Prgr., Tec.: C. R. Heillegger. Dir. Adm.: H. A. Heillegger. Dir. Tec., Foreign Rel.: G. A. T. Heillegger.

PJL3 1230 kc/s 243.9 m 0.25 kW: 11.30–04.30 in **Dutch, Spanish, English, Papiamento. English:** D. 16.30–19.00; Wed., Fri.: 00.30–02.30; D. 02.30–04.30. **Dutch:** D. 11.30–13.00, 15.00–16.30, 22.00–23.30; Tues., Thurs., Sat., Sun.: 00.30–02.30. **Spanish:** D. 13.00–14.00, 23.30–00.30. – **N.:** 17.15, 01.00, 03.30. – **V.** by letter. – **F.PL.:** 1 kW m.w. tr. on 1230 kc/s.

ARUBA

RADIO KELKBOOM (Comm.)

ADDR.: P.O. Box 9, Oranjestad. – **L.P.:** Mgr.: C. A. Kelkboom.

HOME SCE. in Papiamento, Dutch, English, Spanish: PJA5 1435 kc/s 209 m 1 kW: W.: 16.00–18.00, 20.30–02.30. Sun.: 14.30–18.00, 20.30–03.00. – **V.** by QSL-card.

VOICE OF ARUBA (Comm.)

ADDR.: Korteweg No. 4, Oranjestad. – **L.P.:** Mgr., Dir. Adm.: A. Arends. Dir. Tec.: D. Odor.

HOME SCE.: PJA10 655 kc/s 457 m 1 kW: 10.30–02.30: **English:** Fri. 13.30–14.30. D. 10.45, 23.00. – **Dutch:** Mo. 13.30–14.30. D. 16.45. – **Spanish:** Mo. 00.00–01.00, Fri. 02.00–02.30. – **ANN.:** "You are tuned to Station PJA10 – The Voice of Aruba." – **INT.-SIG.:** 4 strokes on a 4 metal bar percussion instrument. – **V.** by QSL-card or letter.

★ NICARAGUA ★

L.T.: GMT+6 h. – **L.:** Spanish. – **Rcvrs.:** 35.000. All stations comm. exc. 19 (Go.) & 27 (Cultural).

JEFATURA DE RADIO NACIONAL, Apt. No. 209, Managua.

STATIONS: **Short Waves.** Calls: YN... *)=inactive

Call	kc/s	m	kW	m.w.	Name	h. of tr.
1) RC	5810	51.63	0.25		R. Cultural	
2) WW	5965	50.28	0.5	650	R. Sport	
3) DG	5995	50.04	1		R. Colonial	
4) BH	6000	50.00	0.3	1230	R. Panamericana	
5) LU-A	6040	49.67	0.5		Radio City	
6) OW	6055	49.55	0.5	1340	La Voz de la America Central	
7) EQ	6065	49.46	0.45	1100	La Voz de la Victoria	
8) WA	*6140	48.96		930	R. Mundial	
9) VP	6185	48.50	0.5		La Voz de Nicaragua	
10) UW	6190	48.47	0.25	1180	R. Dario	
11) WN	7312	41.03	0.15	1450	R. Granada	
12) RM	7602	39.46	0.5	1090	R. Musun	
13) MS	7660	39.16	0.25	1410	R. Philips	13.00–05.00
14) CA	7753	38.67	0.15	1520	R. Atlantico	16.00–20.00, 23.00–04.00.
15) BX	7890	38.02	0.1	775	R. Oriental	

FM: 16) OC 89 mc/s 0.1kW 700 m.w. R. Centauro

Medium Waves: Call: YN... °) Short wave.

17) HP	575	1	25) OO	900	0.4	10) UW	°1180	0.1			
18) RD	590	3	8) W	°935	10	4) BH	°1230	1			
19) RN	630	10	26) LU	965	1.7	33) CW	1240	0.5			
2) XW	°650	1	27) OP	980	0.25	34) WX	1270	2.5			
20) DS	675	2.5	28) XC	1000	3	35) RA	1300	0.37			
16) SC	700	1	29) LL	1050	0.25	36) XZ	1320	0.2			
21) X	750	3	30) TW	1070	0.18	6) KW	°1340	2.7			
15) BX	°775	1	12) RM	°1090	0.25	37) GF	1350	0.25			
22) R	800	1	7) Q	°1100	0.75	13) MS	°1410	0.5			
23) OL	825	2	31) WS	1130	0.75	11) WN	°1450	0.15			
24) MV	850	10	32) BB	1150	0.4	14) CA	°1520	0.15			
						38) AS	1560	0.25			

Short Waves:

1) Managua. – **L.P.:** Dir.: Fco. C. Martinez.
2) Granada. – **L.P.:** Dir.: M. A. Valle.
3) León. – **L.P.:** Dir.: D. E. Gallo.
4) Managua. – **L.P.:** Dir.: G. Rivas. – **ANN.:** "Aqui Radio Panamericana en Managua, Nicaragua." – **INT.-SIG.:** Xylophone. – **V.** by letter.
5) Managua. – **L.P.:** L. F. Hidalgo.
6) Calle Noreste, No. 607, Managua. – **L.P.:** Dir.: J. Mendoza O.
7) Apt. 338, Managua. – **L.P.:** Dir.: A. Solis.
8) 5a Av. N.O. 703, Managua – **L.P.:** Dir. Gen.: J.C. Sandoval – **D. Prgr.:** 12.00–05.00.
9) Garcia y Cia, Managua. – **L.P.:** Dir.: F. R. Tellez.
10) León. – **L.P.:** Dir.: J. Toruño C.
11) Granada. – **L.P.:** Dir.: N. W. Navas.
12) Matagalpa. – **L.P.:** Dir.: P. A. Lugo.
13) Apt. 27, León. – **L.P.:** Dir.: M. A. Solis. – **V.** by letter.
14) Bluefields. – **L.P.:** R. T. Salinas. – **D. Prgr. in Spanish, English.**
15) Granada. – **L.P.:** Dir.: J. M. Perez.
16) Managua. – **L.P.:** Dir.: S. Cardenal A.

Medium Waves:

17) **R. Minerva,** Masaya. – **L.P.:** Dir.: H. Porta C.
18) **R. Deportes,** Managua. – **L.P.:** Dir.: F. A. Valle.
19) **Radiodifusora Nacional,** Managua.
20) **Union Radio,** J. G. Saenz & Cia, Managua.
21) **Estacion X,** No. 1605, Managua. – **L.P.:** Mgr.: R. Cano.
22) **R. Reloj,** Managua. – **L.P.:** R. Arana S.
23) **Ondas de Luz,** Managua. – **L.P.:** Dir.: A. Guido G.
24) **R. Continental,** Ave Este 1200, Managua.
25) **R. Novecientos,** Managua. – **L.P.:** J. M. Marin A.
26) **R. Managua,** Managua. – **L.P.:** Dir.: L. F. Hidalgo. – **D. Prgr.:** 12.00–06.00.
27) **Emisora Cultural Carazo,** Jinotepe. – **L.P.:** Dir.: A. O. Palacio.
28) **R. Excelsior,** Managua. – **L.P.:** Dir.: F. R. Tellez.
29) **R. Masaya,** Masaya. – **L.P.:** Dir.: L. C. Lacayo.
30) **R. Centro,** Granada. – **L.P.:** Dir.: G. Munguia.
31) **La Voz del Tropico,** León. – **L.P.:** Dir.: J. M. Silva.
32) **La Voz de la Segovia,** Esteli. – **L.P.:** Dir.: J. R. Barrantes C.
33) **R. Occidental,** Chinandega. – **L.P.:** Dir.: J. E. Castillo C.
34) **R. Atenas,** León. – **L.P.:** Dir.: N. Icaza.
35) **La Voz de Chinandega,** Chinandega. – **L.P.:** Dir.: A. Rivas C.
36) **R. Cocibolca,** Granada. – **L.P.:** Dir.: O. O. Lejarza.
37) **R. Diriamba,** Diriamba. – **L.P.:** Dir.: G. R. Fernandez.
38) **Ondas del Xolotlan,** Managua. – **L.P.:** Dir.: A. C. Wasmer.

★ PANAMA ★

L.T.: GMT+5 h. – **L.:** Spanish. – **Rcvrs.:** 120.000.

GOVT. DEPT. JURISDICTION: RADIO BROADCASTING IN PANAMA

ADDR.: Direccion de Correos y Telecomunicaciones, Ministerio de Gobierno y Justicia, Panamá. **Cable:** "Dirigentel." – **L.P.:** Chief Eng. Telecomunicaciones: Dr. R. D. Prescott.

Comm. exc. HOXO (religious), ACA20/ACB20 (military).

STATIONS: Call HO---.

Short Waves: C=Circuito.

Call	kc/s	m	kW	m.w.	Name	h. of tr.
1) L21	5960	50.34	0.6	670	R. Hogar:	11.00–03.00
2) M50	5995	50.05	1	610	C. R.P.C.	
3) HP5K	6005	49.96	1	1500	La Voz de la Victor:	11.00–04.00
4) HP5B	6030	49.75	0.25	730	R. Cadena Miram.	11.00–04.00
5) U31	6045	49.63	1	1025	La Voz del Baru:	11.00–03.00
6) RT	6060	49.50	0.3	1410	R. Balboa:	11.00–02.00
7) 0	6090	49.26	0.3	1470	R. Independiente:	24 h.
8) HP5H	6122	49.00	0.5	900	La Voz de Pueblo:	11.00–03.00
9) QQ	6140	48.86	0.5	1250	R. Nacional:	12.00–23.00
10) HP5G	6175	48.58	0.3	700	R. Panamericana:	11.00–04.00
11) LA	9505	31.56	0.25	1390	R. Atlantico:	15.00–01.00
12) HP5J	9607	31.23	0.5	1380	La Voz de Panamá:	11.00–03.00
13) J53	9645	31.10	0.3	1130	R. Provincias:	11.00–03.00
2) F31	9685	30.98	1 d.	610	C. R.P.C.	10.55–05.00

Medium Waves: Call: HO... °)=Short Wave.

Call	kc/s	kW	Call	kc/s	kW	Call	kc/s	kW
14) N31	550	1	24) R59	990	1	36) J22	1265	0.15
2) H2	560	0.5	25) U44	1015	5	37) JU	1280	0.25
2) H3	580	1	2) F2	1020	0.25	30) S23	1295	0.5
2) HM	°610	10	5) U	°1025	1	11) K3	1310	0.3
15) K	640	0.25	26) U23	1030	0.3	38) M92	1330	1
2) H4	660	1	27) S22	1035	0.3	34) O39	1340	0.2
1) LY	°670	0.5	28) J2	1040	0.4	34) OC	1370	0.8
16) F32	680	0.3	29) B41	1050	0.12	12) HP6J	°1380	1
10) A	°700	1	12) HPM21	1050	2	11) L	°1390	0.25
4) HP5C	°730	0.5	30) D21	1070	0.25	39) HS	1400	0.5
17) XO	760	5	19) G2	1090	0.25	6) RS	°1410	0.5
18) ACA20	790	5	31) R58	1110	0.15	18) ACB20	1420	1
2) F33	810	1	32) C21	1115	1	39a) C	1440	0.25
19) G	840	0.3	2) F4	1120	1	40) D42	1460	0.13
20) HO	870	1	13) J	°1130	0.4	7) OH	°1470	1
21) R34	890	1	33) NZ	1170	0.25	3) N	°1500	0.25
8) HA	°900	0.25	34) O38	1180	0.2	41) M56	1520	0.25
22) S56	920	0.3	35) E91	1210	4	42) HPU28	1540	0.075
23) X	940	0.5	10) W	1230	0.1	13) J52	1560	0.1
2) F	965	3	9) Q	°1250	0.25	43) E35	1570	0.1

FM	mc/s	kW	Call	mc/s	kW	Call	mc/s	kW
6) RT	30.5	0.025	12)	74.0	0.1	2) H88	98.0	15
4) HP5C	30.84	0.03	2) H87	88.0	15	2) H86	100.0	15
1) LY	37.9	0.05	17) HO3	88.6	0.05	4) N31	101.0	0.05
2) H	49.9	0.06	2) F87	90.9	15	17) XO2	103.0	0.05
2) H2	49.9	0.09	25) U44	92.0	0.01	17) XO1	105.0	0.05
2) H49	49.9	0.06	24) R59	93.4	0.025			

Short Waves:

1) Apt. 979, Panama. **Cable:** "Hogarradio." – **L.P.:** Dir. Gen.: M. F. Beckmann. – **N.:** 12.30, 18.45, 20.00, 21.00, 01.00. – **Italian:** 00.00–00.30. – **ANN.:** Every h.: "Transmite R. Hogar HOLY 670 kc/s onda larga y HOL21 5960 kc/s onda corta en la banda internacional de 49 metros." – **V.** by QSL-card.
2) Apt. Correo 1795, Panama. **Calle:** Erepece. – **L.P.:** Dir. Gen.: F. Eleta A. Dir. Prgr.: A. Arbesu. Dir. Tec.: L. O'Meally. – **D.PRGR.:** 10.55–05.00. **C. RPC: M.w.:** HOH2 Colon, HOH3 Chitre, HOHM Panama, HOH4 David. – **S.w.:** HOF31 Panama. – **FM:** HOH86 Panama, HOH87 Chitre. – **N.** 12.45, 15.30, 18.00, 23.30, 03.00. – On 9685 kc/s only: Request prgr., **Mbg.:** 13.00–15.30. **Onda Popular: M.w.:** HOF33 Chitre, HOF Panama, HOF2 Colon, HOF4 David. – **FM:** HOF87, HOH88. – **N.:** 11.00, 17.00, 00.00. – **ANN.: C. RPC:** "Transmite el Circuito RPC a través de sus emisoras de onda larga HOHM 610 kc/s en la Ciudad de Panamá; HOH2 560 kc/s en Colón; HOH3 580 kc/s en Chitré; HOH4 660 kc/s en David y su emisora de onda corta HOF31 9685 kc/s banda de 31 metros República de Panamá." – **Onda Popular:** "Transmite Onda Popular a través de sus emisoras de onda larga, HOF 965 kc/s en Panamá; HOF2 1020 kc en Colón; HOF3 810 kc/s en Chitre; HOF4 1120 kc/s en David, República de Panamá." – **V.** by QSL-card
3) Union Radio S. A. Apt. 33, Colon. – **L.P.:** O.: Jaén y Jaén.
4) Apt. 1214, Panama. – **L.P.:** Dir. Gen.: C. Contreras. Mgr.: E. de la Guardia III. Dir. Adm.: R. J. Barsallo. Dir. Tec.: R. Troncoso N.– **D. Prgr.: N.:** 12.00, 18.00, 21.30, 23.00, 24.00, 02.00. – **Nat. Music:** 11.30, 23.30. – **V.** by letter.
5) Apt. 160, David. – **L.P.:** O: Srs. Samudio, Esquivel, Tribaldos.
6) Apt. 1723, Panama. – **L.P.:** O: D. Porras.
7) Apt. 545, Panama. – **L.P.:** O: José A. Sosa M.
8) Apt. 1045, Panama. – **L.P.:** O: M. L. Vega.
9) Apt. 552, Panama. – **L.P.:** O: A. de Mena Hnos.
10) Apt. 1121, Panama. – **L.P.:** O: G. Arias.
11) Apt. 444, Colon. HOK3: **La Onda de la Alegria.** – **L.P.:** O: A. Galindo. HOL/HOLA: 15.00–01.00. HOK3: 11.00–24.00.
12) HP5J/HP6J: Apt. 867, Panama. HPM21: La Voz de Ancon, Ave. Central No. 169, Panama. – **L.P.:** O: M. D. Doce. Mgr. & Dir. Foreign Rel.: J. D. Isaacs. Dir. Prgr.: T. Montero. Dir. Adm.: J. A. Alvaro. Dir. Tec.: A. Morales. **D. Prgr.: N.** 11.30, 15.00, 18.00, 22.00, 24.00. **Nat. Music:** 13.30, 02.30. **Italian:** Sun. 22.00–24.00. – **V.** by letter. – **F.PL.:** Power of s.w. tr. to be increased.
13) Apt. 826, Chitre. HOJ52: Los Santos. – **L.P.:** O: P. Reyes.

Medium Waves:

14) **R. Aeropuerto,** Calle 15, Panama. – **L.P.:** O: R. Fernández D.
15) **Cadena Panamena de Radiodif.,** Apt. 33, Colon. – **L.P.:** as 3).
16) **R. Centenario,** Puerto Armuelles. – **L.P.:** O: R. D. González.
17) **La Voz del Istmo,** Apt. 3269, Panama. (Rel. Owned by Latin American Mission, USA). – **L.P.:** Mgr.: P. Pretiz. Dir. Prgr.: R. Bénkema. Dir. Tec.: H. Erickson. **D. Prgr.:** 11.00 (Sun. 11.30)–04.00. **English:** W. 11.00–16.00, 01.00–04.00, Sun. 11.30–18.30, 00.45–04.00. Other times **Spanish.**
18) **Caribbean Forces Network,** (AFRTS), Fort Clayton, C.Z.
19) **Estacion de la Comunidad,** Apt. 1121, Panama. HOG2: Calle 10a, No. 9080, Colon. – **L.P.:** as 10).
20) **R. Musical,** Apt. 355, Panama. – **L.P.:** O: José E. Sitton.
21) **Ondas del Pacifico,** Apt. 3237, David. – **L.P.:** O: N. Zurita.
22) **HOS56,** Chitre. – **L.P.:** O: R. P. Pérez (under constr.).
23) **R. Betania,** Apt. 1214, Panama. – **L.P.:** as 4).
24) **R. Cristal,** Apt. 4421, Panama. – **L.P.:** O: J. R. Auerbach.
25) **R. Reloj,** Apt. 5124, Panama. – **L.P.:** Dir. Gen.: O. A. Mocci. Dir. Tec.: Eng.: J. Rodríguez. Dir. Prgr.: L. L. Vidal. – **D. PRGR.:** 24 h. – **V.** by QSL-card. – **F.PL.:** 1 kW m.w. 1110 kc/s (HOU17).
26) **R. Zarati,** Apt. 140, Panama. – **L.P.:** O: A. O. de Rodríguez.
27) **R. Mia,** Apt. 5117, Panama. – **L.P.:** O: R. V. F. Pereira P.
28) **Ondas del Canajagua,** Las Tablas. – **L.P.:** O: F. Jolly.
29) **R. Colonial,** Bocas del Toro. – **L.P.:** O: G. Ellerbrock.*)
30) **Radiodif. HOD21,** Av. Meléndez y Av. Roosevelt No. 8044, Colon. – **L.P.:** J. M. Carrasquilla.
31) **R. Rumbos** Apt. 4421, Panama. – **L.P.:** as 24).
32) **C. R. Centro,** Panama. – **L.P.:** O: G. G. Alemán.
33) **Ondas Istmenas,** Apt. 3237, Panama. – **L.P.:** as 21).
34) **C. de Ondas Chiricanas,** HOO38: La Concepcion. HOO39: Boquete. – **L.P.:** O: E. del C. Calvo. – **Ondas Chiricanas,** HOOC: David.
35) **R. El Mundo,** Apt. 1566, Panama. – **L.P.:** O: M. P. de Valdés.
36) **La Voz de America,** La Chorera. – **L.P.:** O: R. Pereira P.
37) **La Voz del Vigia,** Aguadulce. – **L.P.:** O. J. Pérez Jr.
38) **R. Noticias,** Apt. 5219, Panama. – **L.P.:** Dir. Gen.: R. E. Angiuzola. Dir. Tec.: Eng. E. Núñez. – **D. PRGR.:** 11.00–08.00. – **F.PL.:** St. in Chitre (1959). 2 TV-st. Chitre, David.
39) **Ondas Centrales,** Santiago. – **L.P.:** H. Santacoloma. – **D. PRGR.:** 13.00–03.00. **Request:** 13.00, 18.00, 00.00. – **V.** by letter.
39a) **Cadena Panamena de Radiodif.,** Panama.
40) **La Voz de Almirante,** Almirante, Bocas del Toro. – **L.P.:** Dir. Gen., Dir. Tec.: N. O. Dosman H. Dir. Prgr.: A. Bodkin. – **D. PRGR.:** W. 22.00–03.00. Sun. 15.00–24.00. – **English:** Mo., Tues. 23.45–24.00. Wed. 00.30–01.00. Thurs. 01.30–01.45. Sun. 00.10–00.15. –
41) **R. Cultura,** Av. Francisco Clare, David. – **L.P.:** O.: F. M. Luna.
42) **Emisora de la Universidad,** Panama.*)
43) **La Voz del Tropico,** Colon. – **L.P.:** O: L. E. Ortiz.

★ PUERTO RICO (U. S. Territory) ★

L.T.: GMT÷4 h. – **L.:** Spanish, English. – **Rcvrs.:** 270.000.
Comm. exc. **WIPR, WIVV.** – St. allowed to operate as many hours as they wish. H. of tr. approx.: 09.00 or 10.00 to 02.00 or 03.00.

kc/s	Call	kW	kc/s	Call	kW	kc/s	Call	kW
1) 550	WPAB	5/1	10) 940	WIPR	10	19) 1300	WTIL	1
2) 580	WKAQ	5	11) 990	WPRA	10	20) 1320	WRIO	5/1
3) 600	WAEL	1	12) 1070	WMIA	0.5	21) 1340	WGRF	0.25
4) 680	WAPA	10	13) 1110	WVJP	0.25	22) 1370	WIVV	1
5) 710	WKJB	1/0.5	14) 1140	WITA	0.5	23) 1400	WHOA	0.25
6) 740	WIAC	10	15) 1150	WORA	1	24) 1450	WNEL	0.25
7) 810	WKVM	25	16) 1170	WLEO	0.25	25) 1490	WMDD	0.25
8) 850	WABA	0.5	17) 1260	WISO	1	26) 1520	WWWW	0.25
9) 910	WPRP	5	18) 1280	WCMN	1	27) 1560	WENA	0.25
						28) 1590	WXRF	1

FM: 9) 104.7 mc/s – 15) 97.5 mc/s.
1) **P. R. American Broadc. Co.,** P.O. Box 786, Poncé.
2) **El Mundo Broadc. Corp.,** Box 9007, S. Juan.
3) **R. WAEL,** Box 644, Mayaguez.
4) **R. WAPA,** Box 4563, S. Juan. – **L.P.:** Dir. Tec.: J. Arzuaga.
5) **R. WKJB,** Box 1293, Mayaguez. – **L.P.:** Dir. Gen.: J. A. Bechara jr.
6) **R. St. WIBS,** Box 4504, Santurce. – **L.P.:** Gen. Mgr.: T. Muniz.
7) **American Colonial Broadc. Corp.,** Box 4189, S. Juan.
8) **R. WABA,** Box 188, Aguadilla. – **L.P.:** Gen. Mgr.: F. B. Velez.
9) **Voice of P. R.,** Box 430, Poncé. – **L.P.:** Gen. Mgr.: R. de Arellano.
10) **R. Station WIPR,** Apt. 4893, San Juan. – **L.P.:** Dir. Gen.: R. A. Marquez. Mgr.: F. Arrivi. – **D. Prgr.:** 11.00–02.15. **Nat. Music:** Sun. 23.00. **N.:** 14.00, 15.00, 16.00, 18.00, 19.00, 20.00, 22.00, 24.00, 00.45. **V.** by QSL-card.
11) **WPRA, Inc.,** Box 869, Mayaguez. – **L.P.:** Gen. Mgr.: F. Arrivi.
12) **Abacoa Broadc. Corp.,** Box 207, Caguas.
13) **Borinquen Broadc. Corp.,** Box 207, Caguas.
14) **Electronic Enterprises Inc.,** Box 2792, S. Juan.
15) **Radio Americas Corp.,** Box 43, Mayaguez.
16) **Poncé Broadc. Corp.,** Apt. 1526, Poncé. – **L.P.:** Gen. Mgr.: C. L. Cordero. – **D. Prgr.:** 10.00–03.00. – **V.** by QSL-card.
17) **South P. R. Broadc. Corp.,** Edificio Torres., Poncé. – **L.P.:** Dir Gen.: L. E. Freyre. – **D. Prgr.:** 10.30–03.00. – **V.** by letter. R.p.
18) **Caribbean Broadc. Corp.,** Box 755, Arecibo.
19) **Mayaguez Radio Corp.,** Box 1346, Mayaguez.
20) **Master Broadc. Corp.,** Box 335, Rio Piedras.
21) **Jaicoa Broadc. Corp.,** Box 863, Aguadilla.
22) **West Indies Voice of Vieques,** Box 338, Vieques. – **L.P.:** Dir. Gen.: D. D. Luttrel. Dir. Tec.: G. Baldwin. – **D. Prgr.:** 09.30–03.30. – **V.** by letter.
23) **Continental Broadc. Corp.,** Box 4938, S. Juan, Rio Piedras.
24) **Inter American Radio Corp.,** Box 114, Caguas.
25) **WMDD Inc.,** Box 187, Fajardo. –
26) **R. St. WWWW,** Box 935, Rio Piedras.
27) **Bayamon Broadc.,** Box 157, Bayamon.
28) **Guyama Broadc. Co.,** Box 615, Guyama. – **V.** by QSL-card.

ARMED FORCES RADIO & TV SERVICE: see U.S.A.

★ TRINIDAD (British West Indies) ★

L.T.: GMT÷4 h. – **L.:** English. – **Rcvrs.:** 36.000.

TRINIDAD BROADCASTING COMPANY LTD. (Comm.)
ADDR.: R. Trinidad, Broadcasting House, 11 B Maraval Rd., Port-of-Spain. – **Cable:** Broadcast. – **L.P.:** Mgr.: J. M. Laing. Chief Engineer: M. F. Comer.
HOME SCE.: "R. Trinidad", VP4RD: D. 10.00–03.00.
730 kc/s 410 m 20 kW **FM:** 95.1 mc/s 0.25 kW
N.: 10.45*), 11.00 (BBC), 12.00*), 13.00 (BBC), 15.00, 16.00 (BBC), 16.30*), 18.00, 20.00 (BBC), 23.45*), 02.00 (BBC). *) = Wrp.
ANN.: "This is R. Trinidad, the Voice of the West Indies". – **V.** by QSL-card. R.p.

RADIO GUARDIAN (Comm.)
ADDR.: 17 Abercromby St., Port-of-Spain. – **Cable:** Voice. – **L.P.:** Dir. Gen.: L. G. Permuy. Mgr.: G. W. Burnett. Dir. Tec.: H. Anderson.

HOME SCE.: 610 kc/s 491.8 m 10 kW. – **FM:** 89.9 mc/s 0.25 kW d. D. 10.00–03.00. – **V.** by letter.
ARMED FORCES RADIO TELEVISION SERVICE: see U.S.A.

★ VIRGIN ISLANDS (American) ★

L.T.: GMT÷4 h. – **L.:** English. – **Rcvrs.:** 15.000.
RADIO AMERICAN WEST INDIES, INC. (Comm.)
ADDR.: P.O. Box 831, Christiansted, St. Croix, Virgin Islands.
L.P.: Pres.: Mrs. H. M. Higdon. Mgr.: Mrs. M. P. Lang. Dir. Prgr.: R. de Lugo. Dir. Tec.: R. E. Higdon. – **WIVI** 1040 kc/s 288.5 m 0.25 kW: 10.00–03.00. – **V.** by QSL-card. – **F.PL.:** 1 kW. – **Christiansted (St. Croix):** WDTV 1190 kc/s 252 m 0.5 kW. – **ST. THOMAS:** Charlotte Amalie WSTA 1340 kc/s 224 m 0.25 kW.

★ WINDWARD ISLANDS (British) ★

L.T.: GMT÷4 h. – **L.:** English. – **Rcvrs.:** 12.000.
WINDWARD ISLANDS BROADCASTING SERVICE (Go.)
ADDR.: St. George's, Grenada, B.W.I. – Cable: Broadcasts. –
L.P.: Mgr. Prgr. Dir.: A. C. G. Palmer. Dir. Tec.: R. A. Smith.
HOME SCE.: [1]) local. [2]) For Ea. Caribbean.

1040 kc/s	288.9 m	0.25 kW:		21.00–02.15[1])	
3365 –	89.15 –	5	– :	22.30–02.15[2])	
5010 –	59.88 –	5	– :	21.00–22.30[2])	
9550 –	31.41 –	5	– :	Spec. broadc. local daylight[2])	
17910 –	16.75 –	0.25	– :	21.00–02.15 (For Jamaica).	

N.: D. BBC 23.00, 02.00. – **Local N.:** Mo.–Fri. 23.45. Wed., Thurs., Sat. 00.45. – **Request Prgr.:** Tues., Thurs., Sat. 23.10. – **Nat. music:** Mo. 24.00. Thurs. 01.30.
ANN.: "This is the Windward Islands Broadcasting Service". –
INT.-SIG.: A typical calypso phrase played on the "ping-pong", an indigeneous instrument made from the top of a steel drum.

V. by QSL-card. Reports from the West Indies and the Caribbean only. – **PUB.:** Prgr. sched. Weekly.

SOUTH AMERICA

★ ARGENTINA ★

L.T.: GMT÷3 h. – **L.:** Spanish. – **Rcvrs.:** 3.000.000.
MINISTERIO DE COMMUNICACIONES, Buenos Aires. –
L.P.: Secretary of Communications: D. T. Cosentino. Sub-Secr. Dr.: Felix G. Bordelois. Dir. Gen. of Radiodif: D. Serafin S. Guillani.
LRA – R. NACIONAL (Go.)
ADDR.: Dirección Servicio Oficial de Radiodifusion, Secretaria de Comunicaciones, Ayacucho 1556, Buenos Aires. – **L.P.:** Dir. Gen.: D. L. A. Quesada.
HOME SERVICE: 11.00–04.00.
Short Waves:

Call	kc/s	m	kW	m.w.	h. of transm.
LRA31	6062	49.49	16	870	11.00–03.00
LRA34	6180	48.54	10	970	13.00–03.00
LRA33	15345	19.55	100	870	13.00–18.30

Medium Waves: °=Short Wave.

Name	Call	kc/s		Name	Call	kc/s	kW
Santa Rosa	LRA3	670	20	Formosa	LRA8	780	5
Salta	LRA4	690	1	B. Aires	LRA	°870	100
Córdoba	LRA7	750	50	Mendoza	LRA6	°970	5
Rosario	LRA5	780	20				

N. (W. only): 16.00, 19.00, 24.00. – **V.** by QSL-card.
FOREIGN SERVICE.
ADDR.: Radiodifusion Argentina al Exterior, Public Rel., Sarmiento 151, Buenos Aires.
STATIONS:
LRA32 9690 kc/s 30.96 m 100 kW/d. – LRA33 15345 kc/s 19.55 m 100 kW/d.
To Europe: 19.00–01.00 on 15345 kc/s (each language one hour). 19.00 **Spanish** – 20.00 **German** – 21.00 **Italian** – 22.00 **French** – 23.00 **English** – 24.00 **Portuguese.**
To U.S.A.: 02.00–04.00 (Ea.), 04.02–06.02 (We.) on 9690 kc/s: 02.00 **Spanish** – 03.00 **English** – 04.00 **Spanish** – 05.00 **English.** One h. each. – **Prgrs. News, Argentine music, Folk music.**
ANN.: Sp.: "Aqui Argentina". G.: "Hier spricht Argentinien". I.: "Qui Argentina". F.: "Ici l'Argentine". E.: "This is Argentina Calling". P.: "Aqui Argentina". – **V.** by QSL-card.
CULTURAL STATIONS:

LS1	710 kc/s	20	kW	R. Municipal, Teatro Colon, Buenos Aires.
LS11	1270 –	30	–	R. Provincia de B.Aires, 10 y Av. 53, La Plata.
LR11	1390 –	1.5	–	R. Universidad Nacional*)
LT10	1430 –	0.5	–	R. del Instituto Social de la Universidad Nacional del Litoral**)

*) Plaza Rocha 133, La Plata.
**) 9 de Julio y Pellegrini, Santa Fe.

PRIVATE COMM. STATIONS:
Short Waves:

	Call	kc/s	m	kW	m.w.	Name	h. of tr.
1)	LRS2	5985	50.13	1	830	R. Splendid	15.20–17.00, 22.54–01.04
2)	LRY1	6090	49.26	40	950	R. Belgrano	09.45–03.00
3)	LRX1	6120	49.02	10	1070	R. El Mundo	13.00–04.30
3)	LRX	9660	31.06	7.5	1070	R. El Mundo	10.00–04.30
1)	LRS1	9742	30.79	10	830	R. Splendid	as 5985 kc/s
2)	LRY	9760	30.74	40	950	R. Belgrano	09.45–03.00
1)	LRS	11880	25.25	20	830	R. Splendid	09.45–04.00
3)	LRU	15290	19.62	7.5/10	1070	R. El Mundo	10.00–13.00

Medium Waves: °) = Short Waves.

	Call	kc/s	kW		Call	kc/s	kW		Call	kc/s	kW
4)	LV1	560	10	21)	LV7	840	2	37)	LV11	1170	2
5)	LV12	580	10	22)	LU2	900	5	38)	LR9	1190	4
6)	LS4	590	10	23)	LV3	910	12	39)	LW3	1190	4
7)	LU8	590	1	2)	LR3	°950	50	40)	LT6	1200	1
8)	LS5	620	3	24)	LV2	960	10	41)	LU10	1200	3
9)	LT15	630	5	25)	LW8	970	0.25	42)	LV10	1210	2.5
10)	LV8	630	5	26)	LR5	990	25	43)	LT5	1240	1.5
11)	LV15	640	1	27)	LT4	1010	1	44)	LU3	1240	10
12)	LU4	640	1	28)	LV16	1010	5	45)	LV13	1250	5
13)	LU12	680	1	29)	LT2	1020	15	46)	LT9	1260	5
14)	LV6	680	10	30)	LS10	1030	10	47)	LT11	1300	1.5
15)	LV4	690	0.5	3)	LR1	°1070	50	48)	LU13	1300	1
16)	LW7	730	1	31)	LV5	1090	15	49)	LT14	1320	5
17)	LU9	780	1	32)	LR2	1110	15	50)	LV14	1330	1
18)	LR6	790	25	33)	LU5	1130	1	51)	LT7	1340	1
19)	LW1	820	15	34)	LV9	1130	5	52)	LU6	1340	1
1)	LR4	°830	50	35)	LU7	1150	15	53)	LS6	1350	3
20)	LT8	840	5	36)	LT3	1160	15	54)	LT12	1360	0.5
								55)	LT16	1370	1

Short Waves:
1) Uruguay 1237, B. Aires. **L.P.:** Dir. Gen. A. Rigau – **ANN.:** "LR4 Radio Splendid, Buenos Aires, con sus ondas cortas, LRS, LRS1 y LRS2 la Red Argentinas de Emisoras Splendid". – **V.** by letter.
2) Ayacucho 2075, B. Aires. **L.P.:** Dir. Gen. B. Molina – **ANN.:** "LR3 y LRY R. Belgrano de Buenos Aires y la Primera Cadena Argentina de Radiodifusion" or "R. Belgrano de Buenos Aires, La Voz de Argentina". – **INT.-SIG.:** 4 notes on vibraphone. – **V.** by QSL-card.
3) Maipu 555, Buenos Aires **L.P.:** Dir. Gen. R. Quiroga – **FOREIGN SCE.:** **English, Spanish:** D. 03.00–03.30 on 6120/9660 kc/s. 11.00–11.30 on 15290 kc/s (repeat).
ANN.: "LRI Radio El Mundo de Buenos Aires con su Red Azul y Blanca de Emisoras Argentina" – **V.** by QSL-card or letter.
Medium Waves: 10.00–04.00 (approx.) exc. where indicated.
4) **R. Colon,** Mendoza 369, San Juan.
5) **R. Independencia,** Rivadavia 118/20, Tucuman: 10.00–03.00.
6) **R. Porteña,** Rivadavia 827, B. Aires.
7) **R. Bariloche,** Ci. de Bariloche.
8) **R. Rivadavia,** Santa Fe 2043, B. Aires: 12.00–09.44.
9) **R. Concordia,** La Rioja 622, Concordia.
10) **R. Libertador,** Entre Rios 73, Mendoza.
11) **R. Mercedes,** Balcarce 470, Villa Mercedes.
12) **R. Ciudad Rivadavia, M.** Moreno 765, Ci. Rivadavia.
13) **R. Rios Gallegos,** Av. S. Martin y Zapiola, Rios Gallegos.
14) **R. Splendid,** Rioja 1239, Mendoza.
15) **R. San Rafael,** Irigoyen y Francia, San Rafael.
16) **R. Catamarca,** Rivadavia 751, Catamarca.
17) **R. Mar del Plata,** Moreno 2473, Mar del Plata.
18) **R. Mitre,** Arenales 1925, B. Aires: 08.00–04.00.
19) **R. Splendid,** Rivera Indarte 170, Córdoba.
20) **R. Rosario,** Córdoba 1825, Rosario.
21) **R. Tucumán,** Mendoza 273, S. Miguel de Tucumán.
22) **R. Bahia Blanca,** Donado 25, Bahia Blanca.
23) **R. Córdoba,** San Martin 74, Córdoba.
24) **La Voz de la Libertad,** Maipú 166, Córdoba.
25) **R. Jujuy,** R. de Velazco 253, Jujuy. 11.00–03.00. – **V.** by letter.

26) **R. Excelsior**, Rivadavia 829, B. Aires: 10.57–05.00.
27) **R. Splendid**, Calle 3 de Febrero 415, Posadas.
28) **R. Ranquel**, Colón 78, Rio Cuarte. – **L.P.:** Dir. Gen. O. M. Reynero. Dir. Tec.: A. Grassi: 10.25–03.30. – **V.** by letter.
29) **R. Splendid**, Santa Fé 1388, Rosario.
30) **R. Libertad**, Maipú 555, B. Aires.
31) **R. Los Andes**, Mendoza 656, San Juan.
32) **R. Argentina**, Santa Fé 2043, B. Aires: 10.30–07.30.
33) **R. Splendid**, J. B. Alberdi 189, Neuquén.
34) **R. General Güemes**, Dean Funes 28, Salta: 10.00–03.00.
35) **R. General San Martin**, Alsina 247, Bahia Blanca.
36) **R. Cerealista**, Balcarce 840, Rosario.
37) **R. del Norte**, Libertad 251, Ci. Sgo. del Estero.
38) **R. Antardida**, Arenales 1925, B. Aires: 11.00–04.00.
39) **R. Splendid**, Mendoza 225, Tucumán.
40) **R. Splendid**, Mariano I. Llosa 231, Goya.
41) **R. Azul**, Av. Mitre 819, Azul.
42) **R. de Cuyo**, Lavalle 283, Mendoza.
43) **R. Chaco**, Ave. 9. de Julio s/n, Resistencia.
44) **R. Splendid**, Belgrano 29, Bahia Blanca.
45) **R. San Luis**, Rivadavia 563, San Luis. – **L.P.:** Dir. Gen.: O. di Gennaro. Dir. Tec.: A. J. Izurieta. – **D.PRGR.:** 11.00–03.00. – **V.** by letter.
46) **R. Santa Fé**, Rivadavia 2849, Santa Fé.
47) **R. Splendid**, O. Leguizamón 269, Ci. del Uruguay.
48) **R. Splendid**, Belgrano 62–3222, Necochea.
49) **R. General Urquiza**, Rivadavia 64, Paraná.
50) **R. La Rioja**, Buenos 69, La Rioja.
51) **R. Provincia de Corrientes**, Ayacucho 2482, Corrientes.
52) **R. Atlantica**, Rioja 1650, Mar del Plata.
53) **R. del Pueblo**, Santa Fé 2043, B. Aires.
54) **R. General Madariaga**, Av. Ldor Gral S. Martin, P. de los Libres.
55) **R. Splendid**, J. J. de Urquiza 585, Pcia. R. S. Peña.

★ BOLIVIA ★

L.T.: GMT÷4 h. – **L.:** Spanish. – **Rcvrs.:** 250.000.
All st. comm., exc. **R. Illimani** (Go.), **R. La Cruz del Sur** (Rel.), **R. Loyola** (Cultural).
Direc. de Gen. Radiocomunicaciones, Dept. Radiodif., La Paz.
STATIONS: Short Waves:

	Call	kc/s	m	kW	m.w.	Name	h. of tr.
1)	CP39	4855	61.79	0.25		R. Cobija:	23.00–02.00
2)	CP5	5975	50.21	10	1020	R. Illimani:	11.00–04.00
3)	CP18	6070	49.42	0.25		R. El Condor	11.00–18.00
4)	CP15	6125	48.98	0.35	900	R. El Condor	22.00–04.00
5)	CP30	6135	48.90	0.5		R. Gricota:	12.00–24.00
6)	CP12	6150	48.78	0.25	1350	R. Fides:	see below
7)	CP40	6160	48.70	1		Emisora LAB:	10.00–24.00
8)	CP9	6185	48.50	0.45	930	R. Amauta:	11.00–13.00, 23.00–04.00
9)	CP37	6190	48.47	0.25		R. Oruro:	12.00–13.00, 22.30–03.00
10)	CP38	9444	31.76	1.2	730	La Cruz del Sur:	see below
2)	CP6	9500	31.58	1	1020	R. Illimani:	11.00–04.00
11)	CP21	9570	31.35	0.35		R. La Plata:	see below

Medium Waves: Call: CP––. °=Shortwave.

	Call	kc/s	kW		Call	kc/s	kW		Call	kc/s	kW
12)	55	620	0.25	18)	25	930	0.25	25)	28	1350	0.25
13)	56	620	0.15	2)	4	°1020	10	26)	3	1390	0.25
14)	63	620	0.25	19)	45	1090	0.03	27)	16	1390	0.1
15)	34	680	0.15	20)	19	1145	0.3	28)	62	1390	0.1
10)	27	°730	1.2	21)	14	1250	0.25	29)	60	1420	0.25
16)	52	730	0.07	22)	57	1250	0.15	30)	51	1420	0.2
17)	35	810	0.25	23)	64	1250	0.07	31)	36	1420	0.08
4)	20	°900	0.25	6)	29	°1350	0.25	32)	8	1470	0.25
8)	11	°930	0.15	24)	53	1350	0.07				

Short Waves:
1) Centro de Acción Pandina, Cobija (Dep. Pando).
2) Emisora del Estado, Av. E. Camacho Edificio Krsul, La Paz. – **V.** by QSL-card.
3) La Plata 1139, Oruro.
4) Av. E. Camacho 41, La Paz. – **D. Prgr.:** CP20: 11.00–04.00.
5) Prefectura del Departamento, Santa Cruz.
6) Colegio San Calixto, Jenaro Sanjines, La Paz. – **D. Prgr.:** 11.00–13.00, 16.00–18.00, 22.00–03.00.
7) Lloyd Aéreo Boliviano, Hotel Bolivar, Cochabamba.
8) Comercio 386, La Paz. – CP11: 11.00–18.00, 20.00–04.00.
9) Av. 6 de Octubre 762, Oruro. – **L.P.:** Dir.: H. P. Cueto.
10) Nicaragua 405, La Paz. – **L.P.:** Dir. Gen.: R. Bonney. Dir. Prgr.: Mary Beard. Dir. Tec.: J. Mikaelsen.
D. Prgr.: W. (exc. Tues.): 11.00–13.45, 14.30–18.00, 22.00–04.30. Sun. 12.00–23.30. – **N.:** W.: 12.00, 14.30, 17.05, 24.00. – **Nat. Music:** Thurs. and Sat. 14.30. – **English:** Fri. 02.00–02.15. – **English by Radio (BBC):** Tues., Thurs, Sat. 00.45.–**German:** W. 11.25 "Wort für den Tag". Sun. 23.15.
ANN.: E.: "You are listening to CP27 and CP38, the Southern Cross Radio Station...". **Sp.:** "Esta es La Cruz del Sur, con un mensaje de paz en el eter". – **INT.-SIG.:** Opens and closes with "Onward Christian Soldiers".

V. by QSL-card. – **PUB.:** Prgr. sched. free on request. – **F.PL.:** Sw 5 kW, Mw 10 kW.
11) 25 de Mayo 41, Sucre. – **L.P.:** Dir.: G. Donoso D. – **D. Prgr.:** 12.30–14.00, 15.00–17.30, 21.00–22.30, 00.30–02.00.
Medium Waves:
12) **R. Universitaria**, Universidad Técnica, 6 Octubre y Cochabamba, Oruro. – **D. Prgr.:** 11.00–12.00, 23.00–24.00.
13) **La Voz Minera**, Comando Movimiento Nac. Revolucionario, Telamayu.
14) **R. San Gabriel**, Peñas (Dep. La Paz). – **D. Prgr.:** 11.00–13.00, 21.00–01.00.
15) **R. Mariscal Santa Cruz**, Pasaje Bella Vista 212, La Paz. – **D. Prgr.:** 12.15–13.00, 14.30–18.00, 22.00–02.30.
16) **R. Potosi**, Sucre 79, Potosi. – **L.P.:** Dir.: E. Rodriguez S. – **D. Prgr.:** 13.00–15.00, 16.00–20.00, 00.30–03.00.
17) **R. Altiplano**, Av. E. Camacho 62, La Paz. – **D. Prgr.:** 12.00–05.00.
18) **R. Libertad**, Calvo 10, Sucre. – **L.P.:** J. Taboada M. – **D. Prgr.:** 11.30–13.30, 18.00–20.00, 00.00–02.00.
19) **R. Cultura**, Baptista 66, Cochabamba. – **L.P.:** Dir.: J. M. Martinez. – **D. Prgr.:** 11.30–13.00, 15.00–18.00, 21.00–02.30.
20) **R. Aspiazu**, Indaburo 434, La Paz. – **L.P.:** Dir.: H. A. Aspiazu. – **D. Prgr.:** 11.30–19.00, 21.00–03.30.
21) **Emisoras Bolivianas Unidas**, Av. E. Camacho **D. Prgr.:** 11.30–18.00, 20.30–03.00.
22) **R. 9 de Abril**, Comando Movimiento Nac. Revolucionario, Pulacayo.
23) **R. Chorolque**, Sindicato Trabajadores del Arte, Tupiza (Dep. Potosi). – **D. Prgr.:** 12.00–14.00, 16.00–18.00, 22.00–03.00.
24) **R. Indoamerica**, Hoyos 42, Potosi. – **L.P.:** Dir.: M. A. Careaga. – **D. Prgr.:** 12.00–14.00, 15.30–18.00, 21.00–03.00.
25) **R. Cochabamba**, Nataniel Aguirre 341, Cochabamba. – **D. Prgr.:** 11.00–14.00, 16.00–21.00, 23.00–03.00.
26) **R. Bolivia**, Cap. Castrillo 176, La Paz. – **D. Prgr.:** 12.00–14.00, 16.00–18.00, 23.00–03.00.
27) **R. Los Andes**, 15 de Abril 828, Tarija. – **L.P.:** Dir.: E. Monje. – **D. Prgr.:** 16.00–18.30, 00.30–02.30.
28) **La Voz del Minero**, Corp. Minera de Bolivia, Llallagua.
29) **R. Excelsior**, Sucre 657, La Paz. – **L.P.:** Dir.: C. F. Iriarte. – **D. Prgr.:** 11.30–18.00, 20.00–03.00.
30) **R. Loyola**, Casilla 155, Sucre. – **L.P.:** Dir. Gen.: R. Aguilo. S.I. Dir. Prgr.: A. Zelada. Dir. Tec.: L. Camacho. – **D. Prgr.:** 12.00–02.00. – **V.** by letter. – **F.PL.:** S.w. st.
31) **R. Mercurio**, Caro 560, Oruro. – **L.P.:** Dir.: J. M. Irahola. – **D. Prgr.:** 11.00–15.00, 16.00–04.00.
32) **R. America**, Junin 660, La Paz. – **L.P.:** L. Salcedo P. – **D. Prgr.:** 11.00–14.00, 16.00–18.00, 22.00–04.00.

★ BRAZIL ★

L.T.: Eastern (Coastal): GMT÷3 h. Western: GMT÷4 h. – **L.:** Portuguese. – **Rcvrs.:** 3.500.000.
STATIONS: Short Waves. *=inactive.

	Call	kc/s	m	kW	m.w.	Name & h. of tr.
1)	ZYV30	2340	128.2	0.5	1470	R. Dif. Brasileira: 12.00–02.00
2)	ZYJ3	*2420	124.0	0.5	1480	R. Carajá de Anapolis
3)	PRJ7	*2440	122.9	0.5	1530	R. Clube de Pouso Alegre
4)	PRI8	*2450	122.5	0.5	1330	R. Cultura de Aracatuba: 10.00–02.30
5)	ZYR99	2460	122.0	0.1	1250	R. Cacique de Sorocaba: 09.00–03.00
6)	ZYR60	2480	121.0	0.1	1370	R. Cultura de Araraquara: 10.00–02.00
7)	ZYR62	3255	92.17	0.5	1090	R. Cl. de Marilia: 10.30–02.00
8)	ZYK21	3265	91.87	1	890	R. Tamandaré: 09.00–03.00
9)	ZYR92	3265	91.87	2	780	R. Ribeirão Preto
10)	ZYR31	3275	91.60	1	1210	Bauru R. Clube: 09.00–03.00
11)	ZYR89	3285	91.32	1	1600	R. Aparecida: 10.00–01.00
12)	ZYV29	3315	90.50	0.5	630	R. Itatiaia: 09.00–04.00
13)	ZYJ21	3325	90.23	1	1350	R. Borborema: 09.00–03.00
14)	ZYR59	3335	89.95	0.5	820	A Voz do Sertão: 10.00–02.00
15)	ZYS44	3365	89.15	0.5		R. dif. Paraná
15a)	ZYK28	3375	88.88	1	1030	R. Olinda Pernambuco: 08.45–03.00
16)	ZYA41	3385	88.63	1	550	R. Eldorado: 10.00–02.00
17)	ZYF23	4735	63.36	2	690	R. dif. do Maranhão: 09.00–04.00
18)	ZYY3	4755	63.10	1	1270	R.Bras.: 09.00-17.00, 21.00-04.00

	Call	kc/s	m	kW	m.w.	Name & h. of tr.
19)	ZYH29	4775	62.84	5	690	R. Dragão do Mar: 08.00–04.30
20)	ZYM8	4785	62.70	2	1410	R. Ribamar: 09.00–02.00
21)	ZYY20	4785	62.70	0.5		R. dif. de Guaporé: See below
22)	ZYS8	4805	62.43	1		R.dif.do Amazonas:09.00–17.00 19.00–01.00
23)	ZYP33	4815	62.31	1	1480	Petropolis R. dif.: 10.30–02.30
24)	ZYH21	4815	62.31	1	1300	R. Icarema de Fortaleza: 08.00–04.00
25)	ZYE7	4825	62.18	0.5	1470	R. Educadora de Parnaiba: 14.00–16.00, 20.30–01.00
25a)	ZYV55	4825	62.18	0.5	1210	Soc. R. Clube de Varginha: 11.00–01.00
26)	ZYV37	4835	62.05	2.5	1390	R. Soc. Triangúlo Mineiro: 10.00–02.30
27)	ZYU8	4845	61.92	1	1370	R. dif. de Teresina: See below
28)	ZYR61	4855	61.79	1	720	R. dif. Taubaté: 10.00–03.00
29)	PRC5	4865	61.66	2	1450	R. Cl. do Parã: 21.00–03.00
30)	ZYZ30	4875	61.54		940	R. Jornal do Brazil: 10.00–03.30
31)	ZYV50	4885	61.41	1	1350	R. Cultura de Pocos de Caldas: 09.00–03.00
32)	PRF6	4895	61.29	0.25		R. Baré: 11.00–17.00, 20.00–01.30
33)	ZYN22	*4895	61.29	1	1440	R. Cultura da Bahia
34)	ZYZ22	4905	61.16	1	590	R. Relógio Federal: 24. h.
35)	ZYE2	4915	61.04	1.5		R. dif. de Macapá: 10.00–01.00
36)	ZYA36	4925	60.90	10	1090	R. Industrial de Juiz de Fora
37)	ZYI21	4935	60.80	10	1270	R. Poti: 09.00–02.00
38)	PRF7	*4955	60.54	1	1110	R. Cultura de Campos:See below
39)	ZYP27	4965	60.42	1	680	R. Copacabana: See below.
40)	ZYY9	4975	60.30	5	1490	R. Timbira: 11.00–01.00
41)	ZYZ5	4985	60.19	1	1160	A Voz do Este: 09.30–01.30
42)	ZYY2	4995	60.06	2	1270	R. Brasil Central: 09.00–03.00
43)	PRH8	5015	59.82	10	1130	Fundação R. Maua: 08.00–03.00
44)	ZYW22	5035	59.57	1	1370	R. Anhanguera: 09.00–04.00
45)	ZYP23	5045	59.46	5		R. Quitandinha: 08.00–04.00
46)	ZYO23	5055	59.36	1	730	R. Vitoria: 10.00–02.00
47)	ZYR76	5955	50.38	7.5	890	R. Gazeta: 11.00–04.00
48)	ZYU60	5965	50.28	10	720	R. Guaiba: 10.00–12.00
49)	ZYT7	5985	50.13	0.1	1550	R. Guarúja: 09.00–03.00
50)	PRL5	5990	50.08		800	R. dif. Educação: 10.00–04.00
51)	PRK5	6000	50.00	5	880	R. Inconfidencia: 09.00–04.00
52)	PRA8	6015	49.88	10	720	R. Clube de Pernambuco: 09.00–03.00
53)	ZYR63	6025	49.79	10	1200	R. Emiss. de Piratininga: 09.00–04.00
54)	ZYZ26	6035	49.71	10	1180	R. Globo: 09.00–03.00
55)	ZYS33	6045	49.63	7.5	1440	R. Cl. Paranaense: 10.00–03.00
56)	PRB21	6055	49.55	7.5	620	R. Panamericana: 11.00–03.00
57)		6065	49.46	7.5		R. Rural Brasileira
58)	ZYK2	*6085	49.30	16	780	R. Jornal do Commercio
59)	ZYB7	6095	49.22	25	960	R. Dif. de São Paulo: 10.00–05.00
60)	ZYN6	6105	49.14	5	1200	Ceará R. Clube: 08.00–21.00
61)	PRG9	6125	48.98	7.5	1100	R. Nac. de São Paulo: 09.00–05.00
62)	PRC21	6135	48.90	10	680	R. Soc. Gaucha: 09.30–04.00
63)	PRL9	6147	48.80	50	980	R. Rio Nac. de Janeiro: 08.30–04.10
64)	ZYR58	6165	48.66	7.5	1300	R. Cultura: 11.00–02.30
65)	PRH6	6175	48.58	10	1340	R. Guarani: 10.00–04.00
66)	ZYR77	6185	48.50	10	840	R. Bandeirantes: 09.00–16.00, 23.30–05.30
67)	PRD21	6195	48.43	7.5	1030	Emiss. Continental: 09.00–05.00
68)	ZYC7	*6200	48.39	100	900	R. Tamoio
69)		7650	39.21	0.1		R. Brigadeiro Tobias
70)	PSL	7935	37.81	1.5	760	Agencia Nac.: W. 22.30–23.00
71)	PRN9	9290	32.28	5		A Voz da Policia Federal: 12.00–02.00
72)	PRB22	9505	31.56	7.5	1000	R. Record: 22.00–02.30
73)	ZYS43	9545	31.43	7.5	1210	R. Emissora Paranaense: See below
58)	ZYK3	9565	31.37	16	780	R. Jornal do Commercio: 09.00–02.20
74)	ZYZ27	9575	31.33	10	1220	R. Mayrinck Veiga: 10.00–01.30
75)	ZYR56	9585	31.30	7.5	670	R. Excelsior: 08.00–04.00
33)	ZYN29	9595	31.27	1	1440	R. Cultura da Bahia: 08.00–04.00
68)	ZYC8	9610	31.22	25	900	R. Tamoio: 09.00–03.00
76)	ZYR96	9620	31.19	10	540	R. 9 de Julho: 09.00–03.00
11)	ZYR83	9635	31.14	7.5	1600	R. Aparecida: 10.00–01.00
31)	ZYV40	9645	31.10	7.5	1350	R. Cultura de Pocos de Caldes: 09.00–03.00
77)		*9665	31.04	20		Soc. R. Rio
62)	PRC22	*9675	31.01	7.5	680	R. Soc. Gaucha.
78)	ZYT29	9675	31.01	10	1010/ 1390	R. Diario da Manha: 09.00–03.00
47)	PRA6	9685	30.98	50	890	R. Gazeta: 11.00–04.00
78a)	ZYB22	9695	30.94	7.5	1480	R. Rio Mar: see below.
43)	ZYZ24	9705	30.91	10	1130	Fundação R. Maua: 08.00–03.00
63)	PRL7	9720	30.86	50	980	R. Nac. Rio de Janeiro: 08.00–04.10
79)	ZYU59	*9730	30.83	10	600	R. Soc. Farroupilha
64)	ZYR57	9745	30.78	7.5	1300	R. Cultura: 11.00–02.30
42)	ZYW23	9755	30.76	7.5	1270	R. Brasil Central: 09.30–01.30
50)	PRL4	9770	30.70	10	800	R. dif. Educação: 10.00–04.00
70)	PSH	10220	29.35	1.5	760	Agencia Nac.: 22.30–23.00(W)
63)		11720	25.60	10	980	R. Nac. Rio de Janeiro
79a)		11720	25.60		1210	R. Nac. de Brasilia
67)	PRD22	*11735	25.56	1	1030	Emissora Continental
80)	ZYG3	11735	25.56	7.5	1320	R. Cl. de Goiania: 10.00–03.00
53)	ZYR65	*11745	25.54	10	1200	R. Emiss. de Piratininga: 09.00–04.00
81)	ZYB8	11765	25.50	25	1040	R. Tupi de São Paulo: 09.00–05.00
74)	ZYZ28	11775	25.48	10	1220	R. Mayrinck Veiga:10.00–01.30
48)	ZYU61	11785	25.46	7.5	720	R. Guaiba: 23.00–04.00
54)		11805	25.41	10	1180	R. Globo: 09.00–03.00
42)	ZYW24	11815	25.39	7.5	1270	R. Brasil Central: 09.00–03.00
58)	ZYK32	*11825	25.37	16	780	R. Jornal do Commercio
82)		*11855	25.31	10	930	R. Cultura do Paraná
52)	PRA8	11865	25.28	10	720	R. Clube de Pernambuco: 09.00–03.00
83)	ZYN32	11875	25.26	10	740	R. Soc. da Bahia: 17.00–04.00
43)		*11885	25.24	10	1130	Fundação R. Maua
66)	ZYR78	11925	25.16	10	840	R. Bandeirantes: 09.00–16.00, 19.00–05.30
55)	ZYS35	11935	25.14	7.5	1440	R. Clube Paranaense: 10.00–03.00
50)	PRL3	11950	25.10	7.5	800	R. Dif. Educação: 10.00–04.00
72)	PRB24	11965	25.07	7.5	1000	R. Record: 22.00–02.30
62)	PRC20	11975	25.05	7.5	680	R. Soc. Gaucha: 09.30–04.00
70)	PSF	14610	20.53	1.5	760	Agencia Nac. W.: 22.30–23.00
57)		15105	19.86	10		R. Rural Brasileira: 10.00–20.30
62)	PRC24	*15115	19.85	7.5	680	R. Soc. Gaucha
83)	ZYN31	15125	19.83	10	740	R. Soc. da Bahia: 09.00–17.00
56)	PRB23	15135	19.82	7.5	620	R. Panamericana: 11.00–03.00
58)	ZYK33	15145	19.81	16	780	R. Jornal do Commercio 09.00–02.20
59)	ZYB9	15155	19.80	25	960	R. dif. de São Paulo: 12.00–20.30
60)	ZYN7	15165	19.78	5	1200	Ceará R. Clube: 21.00–04.00
51)	PRK9	15190	19.75	5	880	R. Inconfidencia: 09.00–04.00
40)		*15215	19.71	2.5	1490	R. Timbira
75)		*15265	19.66	7.5	670	R. Ecxelsior:
63)		*15295	19.61	10	980	R. Nac. Rio de Janeiro
47)		*15325	19.58	20	890	R. Gazeta.
79)	ZYU68	15335	19.56	10	600	R. Soc. Farroupilha: 09.00–04.00
84)	ZYC9	15370	19.52	25	1280	R. Tupi Rio de Janeiro: 10.00–03.30
67)	PRD23	*15415	19.46	1	1030	Emissora Continental
85)	ZYR206	15415	19.46	1	730	R. Clube Ribeirão Preto: 22.00–03.30
76)	ZYR94	17705	16.94	10	540	R. 9 de Julho: 09.00–03.00
64)		*17815	16.84	10	1300	R. Cultura
63)	PRL9	17850	16.81	10	980	R. Nac. Rio de Janeiro: 08.30–04.10
50)	PRL2	17875	16.79	7.5	800	R. Dif. Educação: 10.00–04.00

Medium Waves: °) short wave * = also FM st.

	Call	kc/s	kW		Call	kc/s	kW
76)	ZYR98	°540	10	94)	PRB8	640	1
16)	ZYZ22	°550	10*	95)	ZYS47	640	1
86)	ZYM5	560	10	96)	ZYI22	640	1
87)	ZYD4	580	1	75)	ZYR56	°670	10
88)	PRG5	580	1	39)	ZYP20	°680	5
34)	ZYZ21	°590	1	97)	ZYV7	680	5
89)		590	1	98)	ZYK26	°680	1
79)	PRH2	°600	50	62)	PRC2	680	10
56)	PRH7	°620	10	17)	ZYF23	°690	5
12)	ZYV29	°630	1*	19)	ZYH29	°690	10
90)	ZYA3	630	1	99)		690	1
91)	PRJ6	630	1	52)	PRA8	°720	25
92)	PRF9	640	10	48)	ZYU58	°720	10*
93)	PRG6	640	1	28)	ZYA8	°720	1*

	Call	kc/s	kW
85)	PRA7	°730	1
46)	ZYO21	°730	1
83)	PRA4	°740	50
70)		°760	2
58)	PRL6	°780	10/20*
9)	ZYR79	°780	1
100)	ZYT30	790	1
50)	PRA2	°800	25
14)	PRI5	°820	0.25*
101)	ZYD8	840	10
66)	PRH9	°840	10
102)	PRA3	860	50
51)	PRI3	°880	50*
103)	ZYU33	880	10
8)	ZYK20	°890	20
47)	PRA6	°890	5*
68)	PRB7	°900	5
103a)	ZYI23	900	10
82)	ZYS25	°930	0.5
104)	ZYH3	930	1*
105)	PRJ3	930	5
106)	ZYM4	930	10
30)	PRF4	°940	50*
59)	PRF3	°960	5
107)	ZYO4	960	10
108)	ZYI2	970	5
63)	PRE8	°980	50*
8)	ZYK20	°980	20
72)	PRB9	°1000	50
108a)	ZYN23	1010	1
109)	PRB3	1010	2*
78)	ZYT26	°1010	0.25
67)	PRD8	°1030	10
15a)	ZYK27	°1030	5/10
81)	PRG2	°1040	50
111)	PRD2	1060	10
112)	PRD7	1080	1
113)	ZYK22	1080	1
114)	ZYE4	1080	1
36)	ZYT9	°1090	0.1
7)	PRI2	°1090	1
115)	ZYN25	1090	1
61)	PRG9	°1100	50
38)	PRF7	°1110	5
116)	ZYT25	1110	1
117)	PRI4	1110	10
118)	ZYE20	1130	10
43)	PRH8	°1130	10
119)		1130	1
120)		1130	1
41)	PRH3	°1160	1
121)	PRF5	1160	5
122)	ZYH7	1160	1
123)	ZYA5	1160	1
124)	ZYL6	1170	5
54)	PRE3	°1180	50*
60)	PRE9	°1200	10
125)	ZYV44	1200	10
53)	PRB6	°1200	5
73)	ZYZ9	°1210	5
10)	PRG8	°1210	1
126)	ZYK23	1210	1
127)	ZYL9	1210	1
79a)		°1210	

	Call	kc/s	kW
25a)	ZYB2	°1210	1
74)	PRA9	°1220	50
128)	ZYR84	1240	1
129)	PRJ2	1250	1
5)	ZYR43	°1250	0.25
130)	PRA5	1260	10
42)	ZYX9	°1270	10
37)	ZYB5	°1270	1
18)	ZYR39	°1270	1
131)	ZYS23	1270	1
84)	PRG3	°1280	50
24)	ZYR7	°1300	10*
64)	PRE4	°1300	10
80)	ZYG3	°1320	2
132)	ZYR201	1320	1
133)	PRH4	1320	1
134)	PRC4	1330	1
4)	PRI8	°1330	1
135)	ZYI5	1330	1
65)	PRH6	°1340	10
136)	ZYX2	1340	5
31)	PRH5	°1350	5
13)	ZYO7	°1350	1
137)	PRC8	1360	10
27)	ZYQ3	°1370	1
44)	ZYW21	°1370	1
138)		1370	1
139)	ZYF3	1370	5
6)	PRD4	°1370	1
26)	PRE5	°1390	1
78)	ZYT36	°1390	0.25
140)	ZYS46	1390	1
141)	ZYK25	1390	1
142)	ZYJ2	1390	1
143)	PRD5	1400	10/5
144)	PRE7	1410	10
145)	ZYH26	1410	10
20)	ZYM8	°1410	1
146)	ZYJ7	1420	5
147)	ZYN4	1420	1
148)	PRE2	1430	5
33)	ZYN20	°1440	10
55)	PRB2	°1440	20
29)	PRC5	°1450	10*
149)	ZYJ20	1450	1
150)	ZYH22	1460	1
151)	ZYI24	1460	1
1)	PRC6	°1470	1
25)	PRJ4	°1470	0.5
152)	ZYE3	1470	1
78a)	ZYB20	°1480	1
153)	ZYH20	1480	1
2)	ZYJ3	°1480	0.5
23)	PRD3	°1480	1
40)	PRJ9	°1490	25
154)	ZYA2	1490	2
155)	ZYV54	1490	1
3)	PRJ7	°1530	0.1
156)	ZYN28	1530	1
49)	ZYT7	°1550	0.1
157)	ZYX5	1550	1
158)	ZYG8	1600	1
11)	ZYR44	°1600	0.1

+ 235 low power less 1 kW.

States abbreviations: DF = Distrito Federal. ER = Estado do Rio. ES = Espirito Santo. MG = Minas Gerais. Pe = Pernambuco. RGN = Rio Grande do Norte. RGS = Rio Grande do Sul. SC = Santa Catarina. SP = São Paulo.

Short Waves:

1) C. P. 173, Uberlandia, M. G. – **V.** by letter.
2) Praça Bom Jesus. 18. Anapolis, Goiás.
3) Pouso Alegre, M. G.
4) Rua Osvaldo Cruz 67, Aracatuba, S. P.: 1330 kc/s: 11.00–02.30.
5) Rua Miranda Azevedo 311, Sorocaba.
6) C. P. 22, Araraquara.
7) Rua Paes Leme 20, Marilia, S.P.
8) Av. Cruz Cabuga 394, Santo Amaro, Recife. Pe.
9) Ribeirão Preto, SP.
10) Praça dos Expedicionários, Bauru, SP. – **V.** by letter.
11) Praça NS. Aparecida No. 315, Aparecida. – **D.PRGR.: N.:** 17.55. **English:** Sat. 24.00– **V.** by letter. R. p.
12) Rua Rio de Janeiro 446, Belo Horizonte, MG. – **L.P.:** Dir. Gen.: J. Carneiro – **D.PRGR.: English:** Sat. 17.00–18.00. **Spanish:** 2nd Sat. of the month: 18.00–18.30.
13) C. P. 160, Campina Grande, Paraiba.
14) C. P. 5, Pres. Prudente, SP. – Dir. Gen.: A. Campos.
15) Londrina, Paraná.
15a) C. P. 1313, Recife, Pe. – **Cable:** Radiolinda: 1030 kc/s: 08.45–06.00.
16) Av. Pres. Vargas 417, Rio de Janeiro. – **FM:** 98.7 mc/s.
17) São Luiz, Maranhão.
18) C. P. 625, Campinas, São Paulo – **L.P.:** Pres.: A. Pedroso. Dir. For. Rel.: Dr. F. de Campos Abreu – **D.PRGR.:** ZYR39: 09.00–04.00. **N.:** 00.30. – **ANN.:** "ZYY3-Rádio Brasil de Campinas – ZYR39-R. Brasil de Valenhos emissoras brasileiras da Organização Irmãos Pedroso". After 01.00 ann. also in E, I. F. and Sp. – **V.** by letter.
19) Rua Pereira s/n, Fortaleza, Ceará, – **ANN.:** "A Voz mais potente do Nordesté".
20) Rua do Apicum 118–130, Sao Luiz, Maranhao.
21) Av. Ferquar, Guapore, Porto Velho, Rondonia: 12.00–13.30, 15.00–17.30, 21.30–02.30. – **V.** by letter or QSL-card.
22) Rua Joaquim Sarmento 100, Manaus, Amazonas.
23) Praça D. Pedro II, 17, Edif. d'Angelo. Petrópolis, ER.
24) Rua 24 de Maio 554, Fortaleza, Ceará.
25) C. P. 31, Parnaiba, Piaui. – **V.** by letter.
25a) C. P. 102, Varginha, MG. – **L.P.:** Dir. Gen.: S. S. Moraés. Dir. Tec.: J. Silvino. – **V.** by letter.
26) Rua Major Eustaquio 13, Uberaba, MG.
27) Aerolino de Abreu 1157, Teresina, Piaui. – **D.PRGR.:** 09.00–11.00, 13.00–16.00, 18.00–01.00.
28) Rua Visconde do Rio Branco 247, Taubaté, S.P. – **ANN.:** "R.dif. Taubaté, emissoras ZYA8, ZYR61 m.w. e curtas. Taubaté, Estado de São Paulo." – **V.** by QSL-card.
29) Av. Presidente Vargas, Belém, Para. – **L.P.:** Dir. Gen.: E. Proenca. – **D.PRGR.:** 1450 kc/s: 09.00–03.00. – **V.** by letter or QSL-card.
30) Av. Rio Branco 110, 5° andar, Rio de Janeiro, DF.
31) C. P. 143, Pocos de Caldas. MG. – **V.** by letter or QSL-card.
32) Av. Eduardo Ribeiro 566, Manaus, Amazonas.
33) Av. 7 de Setembro No. 311, Salvador, Bahia. – **L.P.:** Dir. Gen.: J. R. Rocha. – **V.** by letter or QSL-card.
34) Av. Presidente Vargas 417-A, Rio de Janeiro, DF.
35) Rua Candido Mendes, Macapá, Amapá. – **L.P.:** Dir. Gen.: M.Q. da Silva. Dir. Tec.: I. A. Veras. – **F.PL.:** s.w. 5 kW.
36) Rua Alfeld, Juiz de Fora, Minas Gerais: 09.00–12.00, 13.00–16.00. 18.00–03.00.
37) C. P. 145, Natal. – **Cable:** Radiopoti. – **L.P.:** Dir. Gen.: L. M. Alves. – **Mbg.:** 09.00–10.00, 12.00–14.00.
38) Rua Lacerda Sobrinho 6, Campos, ER. – **D.PRGR.: German:** Sun.: 15.00–17.15, 22.00–23.15, Tues. & Fri. 22.00–22.30.
39) Av. Rio Branco 277, Rio de Janeiro, DF. – **D.PRGR.: German:** Sun.: 15.00–17.15, 22.00–23.15. Tues & Fri. 22.00–22.30.
40) Ed. da Imprensa Oficial, São Luiz, Maranhão.
41) Praça Ipiranga 172, Cuibá, Mato Grosso.
42) C. P. 330, Goiania, Goiás. – **V.** by QSL-card or letter.
43) Palacio do Ministerio de Trabalho, Rio de Janeiro, DF. **D.PRGR.: German** Thurs. 21.15–22.00.
44) Av. Anhanguera No. 92, Goiania, Goiás. – **L.P.:** Dir. Gen.: F. L. de Almeida. – **D.PRGR.: N. & Commentary:** 15.00, 00.30. – **Mbg.:** 13.10, 17.45, 21.05. **Wrp.:** 00.30.
45) C. P. 5992, Petropolis, Rio de Janeiro. – **D.PRGR.: German:** Sun. 15.00–17.15, 22.00–23.15 (rel. from R. Copacabana).
46) Av. Florentino Avides 492, Vittoria, ES.
47) R. da Conceição 88, S. Paulo. – **L.P.:** Dir. Gen.: F. de Campos – **D.PRGR.: German:** D. 12.00–12.30. Sun. 19.05–19.55.
48) Caldas Junior 215, Porto Alegre – **D.PRGR.:** 720 kc/s: 09.00–04.00. 5965 kc/s: 10.00–12.00, 11.785 kc/s 23.00–03.00.
49) Rua de Riachuelo 62, Guaruja Paulista, SP.
50) Praça da Republica 141–A, Rio de Janeiro, D.F. – **(O.: The Federal Gov., operated by the Ministry of Education).** – **L.P.:** Dir. of Broadc.: R. Cavé. – **D.PRGR.: L.L.:** Mo., Wed., Fri.: **Portuguese:** 10.00–10.30. **English:** 10.30–11.00. **Spanish:** 11.00–11.30. **French:** 11.30–12.00. Mo., Thurs.: **German:** 21.00–21.25. – **V.** by letter.
51) C. P. 1027, Belo Horizonte, M.G. – **L.P.:** Dir. Gen.: Dr M. Andrade. – **D.Prgr.: N.:** D. 11.00, 15.15, 16.00, 22.00, 01.00. **Italian:** Sun. 17.30. **French:** Wed. 01.05. – **ANN.: P.:** "Aqui Falam PRI3, PRK5 e PRK9, emissoras de ondas curtas e médias da Rádio Inconfidência, Belo Horizonte, Minas Gerais, Brasil". – **F.:** "Ici parlent les postes PRI3, PRK5 et PRK9 de la Radio Inconfidencia, Belo Horizonte, Minas Gerais, Brasil". – **I.:** "Parlando PRI3, PRK5, PRK9, êstaziones della Radio Inconfidencia, Belo Horizonte, Minas Gerais, Brazile". – **INT.-SIG.:** Gong. – **V.** by QSL-card or letter. Reports in English allowed.
52) Av. Cruz Cabuga 394, Recife, Pe. – **V.** by QSL-card.
53) Praça de Patriarca 26, São Paulo. – **D.PRGR.: Japanese:** 08.30–09.00, 22.00–24.00. – **German:** W. 16.00–16.30.
54) Rua Ireneu Marinho 35, Rio de Janeiro. D.F. – **V.** by QSL-card.
55) Rua Barão do Rio Branco 135, Curitiba, Paraná. – **V.** by letter.
56) Rua Riachuelo 275, São Paulo. – **D.PRGR.: Japanese:** 09.20–10.50.
57) Serviço de Informação Agricola, Edif. do Ministerio da Agricul-

tura, Rio de Janeiro, D.F. – **L.P.**: Dir. of Agricultural Inf. Sce.: J. A. Vieira.
58) Rua Marques do Recife, Recife, Pernambuco. – **L.P.**: Dir. Gen.: Dr. F. Pessoa de Queiros – **D.PRGR.**: **N.**: 10.00, 11.00, 15.30, 16.00, 21.05, 22.25, 02.01. **English**: "Brazil Calling" D. exc. Mo. 01.05–01.30 on 9565 kc/s. – **ANN.**: "Pernambuco Falando para o Mundo, Radio Jornal do Commercio, Recife, Pernambuco, Brazil". **E.**: "Pernambuco speaking to the World. This is Brazil calling". – **V.** by QSL-card. **F.PL.**: 4 st of 1 kW each.
59) C. P. 252 e 4142, São Paulo. – **D.PRGR.**: **Japanese**: 10.00–11.00. **Italian**: 00.00–00.30. – **V.** by QSL-card or letter.
60) C. P. 222, Fortaleza. – **V.** by letter.
61) Rua 24 de Maio 208, São Paulo.
62) Box 1164, Porto Alegre. – **L.P.**: Dir. M. S. Sobrinho. – **D. Prgr.**: **German**: Sat. 21.45–22.00. – **V.** by QSL-card.
63) Praça Maua, 7–22° andar, Rio de Janeiro. – **L.P.**: Dir. Gen.: M. Areas. – **D.Prgr.**: m.w. D.: 24 h. On s.w.: 08.30–04.15, – **N.**: 09.05, 11.00, 13.00, 15.55, 20.30, 23.25, 01.00, 02.00. – **ANN.**: "Quvem R. Nacional, Rio de Janeiro, Brazil, por suas emissoras de ondas curtas, médias e frequência modulada". – **INT.-SIG.**: First movement of the Brazilian musical poem: "Luar do Sertão". – **V.** by QSL-card. **FM**: 100.5/105.3 mc/s – 3/0.25 kW. – **F.PL.**: 15290 kc/s – 10 kW.
64) Av. São João 1285, São Paulo. – **D.Prgr.**: **German**: W. 21.30–22.30, Sun. 23.00–23.30. **Japanese**: 10.45 (Sun. 10.30)–11.45, 15.30–15.40. At 23.30–00.30 on 6165 kc/s only.
65) Rua Goiás 36, Belo Horizonte M.G.
66) Rua Paula Souza 181, São Paulo. – **L.P.**: Dir. Gen.: M. Leite. – **D.Prgr.**: m.w. 24 h. – **ANN.**: "Radio Bandeirantes de São Paulo, transmitindo simultaneamente pelas suas estacoes: PRH9 ondas médias 840 kc/s, ZYR77 ondas curtas 6185 kc/s, ZYR78 ondas curtas 11925 kc/s". – **INT.-SIG.**: Vibraphone and organ. – **V.** by QSL-card.
67) Rua Riachuelo 48, Rio de Janeiro, DF.
68) Av. Venezuela 43, Rio de Janeiro DF. – **V.** by QSL-card.
69) Brigadeiro Tobias, SP.
70) Av. Presidente Wilson 164, Rio de Janeiro (**Go., operated by the Ministry of Justice and Interior**). – **L.P.**: Dir. For. Rel.: C. R. P. Fornari. – **D.Prgr.**: M.w. 22.00–02.00. ""**A Voz de Brazil**": W. 22.30–23.00 on 7935, 10220, 14610 kc/s, rel. by all st.'s.
71) Rua de Relação, R. de Janeiro: 12.00–02.00. – **V.** by letter.
72) Rua Quintino Bocaiuva 22, São Paulo: 1000 kc/s 24 h.
73) C. P. 471, Curitiba, Paraná. – **D.Prgr.**: **German**: Sun. 00.00–00.30, 11.30–12.30. Wed. 00.00–01.00
74) Rua Mayrinck Veiga 15–17, Rio de Janeiro, DF. – **L.P.**: Dir. Gen.: L. Vassalo.: 1220 kc/s: 24 h.
75) Rua 24 de Maio 208, 13°–14° andar, São Paulo. **German**: 10.00–12.30 (Sun. 13.25).
76) Rua Wenceslau Braz 78, São Paulo. – **D.Prgr.**: **Japanese**: 09.30–10.30. **German**: D. 14.30–15.00, 23.00–23.30.
77) Rio de Janeiro, D.F
78) C. P. 331, Florianopolis, SC. – **D.Prgr.**: **German**: Sat. 18.00–19.00. – **V.** by letter.
78a) Av. Epaminondas 555, Manaus, Amazonas – **D.Prgr.**: 09.30–12.30, 14.30–18.30, 21.00–02.00: **N.** 10.00, 16.30, 23.30. **Mbg**: 23.00 – **V.** by letter.
79) Rua 7 de Setembro 1142, Porto Alegre, RGS. – **V.** by QSL-card.
79a) Brasilia, Goiás. – **L.P.**: Dir. L. Mesquita.
80) Rua Dois 5, Goiania, Goias. – **V.** by QSL-card.
81) Rua 7de Abril 230, São Paulo.: **N.** 10.00, 01.40.
82) Rua Barao do Rio Branco 157, Curitiba, Paraná. – **L.P.**: Dir. C. Aguiar: 09.00–03.00.
83) Rua Portugal 6, 2° andar, Salvador, Bahia.
84) Av. Venezuéla 43, Rio de Janeiro. DF.
85) C. P. 18, Ribeirao Preto, S.P.

Medium Waves:

86) **R. Soc. Guairaça**, C. P. 1053, Curitiba, Paraná.
87) **R. Londrina**, C. P. 444, Londrina, Paraná.
88) **Soc. R. Atlántica**, C. P. 7, Santos, São Paulo.
89) **R. Dif. Ouro Verde**, Rua Monsenhor Celso 211, Curitiba, Paraná
90) **R. Dif. de Cambará**, C. P. 78, Cambará, Paraná.
91) **R. Dif. de Sergipe**, C.P.6, Aracaju, Sergipe.
92) **R. Dif. Porto Alegrense**, Porto Alegre, R.G.S.
93) **R. Mantiqueira, C.P.** 62, Cruzeiro, S.P.
94) **R. Rio Preto**, Rua Siqueria Campos, S. José do Rio Preto, S.P.
95) **R. Curitibana**, Curitiba, Paraná.
96) **R. Cabugi**, Av. Rio Branco 729, Natal, RGN: 08.55–02.00. –
97) **R. Soc. Norte de Minas**, C.P.56, Montes Claros, M.G.
98) **R. Dif. de Limoeiro**, Rua Marques do Recife, Recife Pe: 09.55–02.00.
99) **R. Clube de Lages**, Rua 15 de Novembro, Lages S.C. 10.00–02.30.
100) **R. Diario da Manha**, Lages, SC.
101) **R. Excelsior da Bahia**, Rua Guedes de Brito 14-A, Salvador, Bolivia. – **D. Prgr.**: 10.00–03.00.
102) **R. Mundial**, Av. Rio Branco 181, 3° andar, Rio de Janerio, DF.
103) **R. Itai**, Rua Andrades 1155, Porto Alegre R.G.S.: 09.00–03.55.
103a) **R. Nordeste**, Rua João Pessoa 86, Natal, RGN.
104) **R. Cultura São Vicente**, São Vicente, S.P. 09.00–04.00.
105) **R. Araguari**, Araguari, M.G.
106) **R. Libertade de Sergipe**, Aracaju, Sergipe.
107) **R. Dif. de Alagoas**, Maceio, Alagoas.
108) **R. Imenbui**, Rua Venancio Alves 1930, S. Maria, 09.00–03.00.
108a) **R. Itaparica da Bahia**, Av. 7 de Setembro 311, Itaparica, Bahia.
109) **R. Soc. Juiz de Fora**, C.P.353, Juiz de Fora, MG. – **V.** by letter.
111) **Soc. R. Emissora Metropolitana**, Rua Richuelo 48, Rio de Janeiro, DF.: 10.00–03.00.
112) **R. Clube de Sorocaba**, C.P.1, Sorocaba, SP.
113) **R. Dif. de Caruaru**, Av. A. Magalhaes, Recife, Pe.: 09.00–02.00.
114) **R. Soc. de Friburgo**, Praça Getulio Vargas 74, Nova Friburgo, E.R.: 11.00–16.00, 18.00–01.00.
115) **R. Clube de Conquista**, Praça Rio Branco 3, Vitoria de Conquista, S.P: 11.00–16.00, 18.00–22.00.
116) **R. Anita Garibaldi**, Rua João Pinto 32, Florianopolis, 09.00–04.00.
117) **R. Tabajara da Paraiba**, Rua Rodriguez de Aquino, s/n, Joao Pessoa, Paraiba: 09.00–02.00.
118) **R. Marajoara**, Belém, Pará.
119) **Mossoró R. Soc.**, Praça Rafael Fernandes 8, Mossoró, R.G.N:
120) **R. Dif. Vale do Itajaí**, Rua 15 de Novembre 343, 2° andar, Blumenau, S.C:11.00–03.00.
121) **R. Cariri**, Campina Grande, Paraiba.
122) **R. Presidente Wenceslau**, Av. Newton Prado, Presidente Prudente, S.P: 09.00–02.00.
123) **R. Dif. de Joinville**, Rua Pedro Lobro 219, Joinville, S.C.
124) **R. Educadora de Campinas**, Rua Barreto Leme 931, Campino: 24 h.
125) **R. Clube Metrópole**, Av. Pres. Roosevelt 1406, Porto Alegre.
126) **R. Dif. de Garanhuns**, Rua Marques do Recife, Recife, Pe.
127) **R. Cachoeiro de Itapemirim**, Cachoeiro de Itapemirim
128) **R. Presidente Prudente**, C.P. 804, Presidente Prudente, S.P
129) **R. Clube Pontagrossense**, C.P. 114, Ponta Grossa, Paraná
130) **R. São Paulo**, Av. Angélica 430, São Paulo, SP.
131) **R. Cultura de Maringa**, C.P. 76, Maringa, Paraná.
132) **R. Dirceu de Marilia**, C.P. 730, Marilia, SP.: 10.00–03.00.
133) **R. Cultura de Pelotas**, Pelotas, RGS.
134) **R. Clube de Blumenau**, Blumenau, SC.
135) **R. Itajubá**, Praça Adolfo Olinto 19, Itajubá, MG.
136) **R. Arapua**, João Pessoa, Paraiba.
137) **R. Guanabara**, Av. 13de Maio, Rio de Janeiro: 10.00–03.15.
138) **R. Dif. Sul da Bahia**, Rua 7de Setembro 1119, Itabuma, SP.
139) **R. Caxias do Sul**, Av. Julio de Castilhos 1576, Caxias do Sul, RGS
140) **R. Tingua**, Curitiba, Paraná.
141) **R. Dif. de Pesquiera**, Rua Marques do Recife s/n, Recife, Pe.
142) **R. Sul Fluminense**, Av. Joaquim Leite 465, Barra Mansa, ER.
143) **R. Roquete Pinto**, Av. Almirante Barosso 81, Rio de Janeiro, DF.
144) **R. America**, Rua da Consolação 116, São Paulo, SP.
145) **R. Verdes Mares**, Fortaleza, Ceará.
146) **Soc. Guaruja**, Florianopolis, SC.
147) **R. Cultura Feira de Santana**, Feira de Santana, Bahia.
148) **R. Vera Cruz**, Rua Buenos Aires 168, Rio de Janeiro: 11.45–03.00.
149) **R. Caturité**, Campina Grande, Paraiba.
150) **R. Icarema de Sobral**, Rua Cel José Saboia, Sobral, Ceará
151) **R. Tapuio**, Mossoró, RGN.
152) **R. Emiss. Convenção**, Rua F. Peixoto, Itu, SP: 09.00–02.00.
153) **R. Arararipe**, Rua Nelson Alencar 90, Crato, Ceará.
154) **R. Dif. Matogrossense**, Av. 13 de Junho 899, Corumbá.
155) **R. Cacique de Araguari**, C.P. 437, Araguari, MG.
156) **R. Clube de Itabuna**, Rua J. J. Seabra 47, Itabuna, Bahia
157) **R. Soc. Oeste Catarinense**, C.P. 44, Chapeco: 09.00–01.00.
158) **R. Dif. Olimpia**, Rua Dr. A. Olimpia 213, Olimpia, SP

★ CHILE ★

L.T.: GMT+4 h. – **L.**: Spanish. – **All stations comm.** – **Revrs.**: 660.000.

ASOCIACION DE RADIODIFUSORAS DE CHILE (ARCHI)

ADDR.: Casilla 10476, Santiago de Chile. – **Cable**: Archi. – **L.P.**: Pres.: Sr. E. Sánchez Matte. Secr. Gen.: Julio Menadier Carrasco. **S.W.**: Call letters CE are used for all zones. **M.W.**: Call letters CA, CB, CC, CD indicate: A=No. Zone, B=C. Zone, C=So. Zone, D=Antarctic Zone. The figures indicate the freq. in kc/s minus one cipher, f. inst. CB82=C. Zone 820 kc/s. – **Abbreviations**: Soc.=Sociedad. Nac.=Nacional. *=inactive.

STATIONS: Short Waves

Call	kc/s	m	kW	m.w.	Name and h. of transm.
1) CE8AA	5750	52.18	0.5	570	Soc. Nac. de Agricultura: irr.
2) CE601	6010	49.92	5	1270	Emisoras Norte: 11.30–04.00
3) CE602	6020	49.83	10	1080	Diego Portales: 11.00–05.00
4) CE604.5	6045	49.63	5	900	R. Libertad: 11.00–04.00
5) CE607	6070	49.42	5	1060	Soc. Nac. de Mineria: 11.00–04.00
6) CE610	6100	49.18	0.25		R. Calama: 11.30–04.00
1) CE611	6110	49.10	0.5	570	Soc. Nac. de Agricult.: 11.30–05.00
7) CE615	6150	48.78	5	760	R. Coop. Vitalicia: 11.30–04.00
8) CE619	6190	48.47	5	1140	Corp. Chilena de Broadc.: 11.25–04.00

Call	kc/s	m	kW	m.w.	Name and h. of transm.
9) CE766	7660	39.16	1	1010	R. Yungay: 11.30–06.30
8) CE950	*9500	31.58	5	1140	Corp. Chilena de Broadc.
10) CE960	9600	31.25	10	1300	R. Pres. Balmaceda: 10.45–05.00
11) CE1174	11755	25.52	5	930	R. Nuevo Mundo: 11.25–04.00
12) CE1185	11850	25.32	2.5	1380	R. Cruz del Sur: 12.00–04.00
7) CE1190	11940	25.13	5	730	R. Coop. Vitalicia: 11.30–04.00
5) CE1196	11960	25.08	5	1060	Soc. Nac. de Mineria: 11.00–04.00
1) CE1180	12000	25.00	5	570	Soc. Nac. de Agricult.: 11.30–04.00
5) CE1511.5	*15115	19.85	5	1060	Soc. Nac. de Mineria
8) CE1515	15150	19.80	5	1140	Corp. Chil. de Broadc.: 11.25–04.00
1) CE1530	*15300	19.61	0.5	570	Soc. Nac. de Agricultura

Medium Waves: °=Short Wave

Call	kc/s	kW	Call	kc/s	kW	Call	kc/s	kW
1) CB57	°570	15	11) CB93	°930	10	53) CC127	1270	0.25
13) CC59	590	1	34) CA96	960	0.3	10) CB130	°1300	1
14) CB62	620	2	35) CC96	960	0.3	54) CD132	1320	1
15) CB63	630	1	36) CB97	970	1	55) CB132	1320	1
16) CA63	630	0.25	37) CD101	1010	1	56) CC133	1330	0.15
17) CD63	630	1	9) CB101	°1010	1	57) CB134	1340	1
18) CA64	640	0.5	7) CD103	1030	1	58) CA135	1350	0.25
19) CC64	640	1	38) CB103	1030	1	59) CC135	1350	0.25
20) CB66	660	12	5) CB106	°1060	10	60) CD135	1350	0.50
5) CB68	680	1	39) CA108	1080	1	61) CD137	1370	1
21) CC68	680	0.5	3) CC108	°1080	5	12) CB138	°1380	1.5
22) CD69	690	1.2	40) CA109	1090	0.25	62) CC141	1410	1
23) CB70	700	1	41) CC109	1090	1	63) CB141	1410	1
24) CA70	700	0.25	42) CD111	1110	1.25	64) CA141	1410	
7) CB73	°730	10	43) CB111	1110	1	65) CC143	1430	0.1
7) CB76	°760	75	44) CC111	1110	0.1	66) CC144	1440	1
25) CB82	820	1	8) CB114	°1140	50	67) CB146	1460	0.1
26) CA82	820	0.5	45) CB116	1160	2	68) CD146	1460	0.25
27) CD82	820	1	46) CC116	1160	1.5	69) CB147	1470	0.25
28) CC84	840	0.8	47) CB118	1180	25	70) CC148	1480	0.25
29) CD84	840	1	1) CD121	1210	10	71) CB150	1500	10
30) CB84	840	1	48) CA121	1210	0.25	72) CA152	1520	0.5
31) CD89	890	1	49) CB124	1240	0.25	73) CC152	1520	0.25
32) CB89	890	1	50) CC125	1250	1	74) CB153	1530	0.25
33) CC90	900	0.1	51) CA126	1260	0.5	75) CB154	1540	0.25
1) CB90	900	1	52) CB126	1260	1	76) CB156	1560	1
4) CA90	°900	1	2) CA127	°1270	0.25			

FM: 7) CE92 92 mc/s 20) CE88 88 mc/s 3) 300 mc/s 1 kW

Short Waves:

1) CB57: Augustinas 718, Casilla 40-D, Santiago. CB90: Casilla 90, Valparaiso. CD121: Casilla 327, Los Angeles. – **L.P.:** CB57: Dir.: F. Echeverria. CB90: Mgr.: J. P. Aedo. Dir. Tec.: J. Coiro T. – **D. Prgr.:** CB57: **German Hour:** Mo.–Sat. 23.30–24.00. Sun.: 03.00–04.00, 22.00–23.30. – **V.** by QSL-card. – **F.PL.:** CB90: One m.w., one s.w. tr. 1959; prgrs. in three languages.

2) Casilla 708, Antofagasta. – **L.P.:** Dir.: E. Torrens.

3) Uno Norte 1075, Talca. – **L.P.:** Dir. Gen.: R. T. Siwady. Mgr.: A. H. Ananias. Dir. Tec.: P. del Campo Benavente. – **D. Prgr.:** N. every h. on the h. 12.00–04.00. – **V.** by letter. – **F.PL.:** 50 kW tr. Apr. 1959.

4) Casilla 457, Antofagasta. – **L.P.:** Dir.: A. Cajiao.

5) CB106: Casilla 2626, Santiago. CB68: Casilla 337, Viña del Mar. – **L.P.:** CB106: Mgr.: E. Sanchez. CB68: Mgr.: L. Muñoz. – **ANN.:** "Santiago de Chile, R. Soc. Nac. de Mineria". – **INT.-SIG.:** Gong. – **V.** by QSL-card.

6) Casilla 1, Calama. – **L.P.:** O. P. Vergara Keller. – **N.:** 11.30, 16.00, 01.00. – **V.** by letter.

7) CB76: Casilla 13130, Santiago. CB73: Casilla 1627, Valparaiso. CD103: Casilla 169, Temuco. – **L.P.:** CB76: Mgr.: E. Hamilton. CB73: Gen. Mgr.: L. Falcone. CD103: Mgr.: N. Kunakov Z. Dir. Tec.: A. Elsitdiéh. – **D. Prgr.:** CB76: **German Hour:** Wed. 22.45–23.45. **ANN.:** "La Voz de Chile para toda America". All st. tr. simultaneously: "Transmite Radio Cooperativa Vitalicia y la Primera Cadena Chilena de Emisoras". – **V.** by QSL-card.

8) Casilla 244V, Santiago. – **L.P.:** Dir.: J. Walker. – **ANN.:** "Transmite CB114 Radio Corporacion de Santiago de Chile, con sus ondas cortas en 19 y 49 metros".

9) Casilla 3041, Santiago. – **L.P.:** Dir.: H. Beweis. – **ANN.:** "CB101 y CE766 Estaciones de Radio Yungay de la Corporacion Chilena de Radiodifusion Ltda., Santiago de Chile". – **INT.-SIG.:** First movement of the song: "Donde el Azul de la Noche encuentra el Ove del Dia". – **V.** by letter.

10) Nueva York 53, piso 7°, Santiago. – **L.P.:** Dir.: M. L. del Solar. – **INT.-SIG.:** Gong with notes from the melody "Los Copihues Rojos". **V.** by QSL-card.

11) Casilla 9255, Santiago.

12) Casilla 3126, Santiago. – **German Hour:** 00.00.

Medium Waves:

13) **R. Condor,** Casilla 486, Concepcion.

14) **R. La Reina,** Nueva York 25, Santiago. – **L.P.:** Dir. G. Camus.

15) **R. Prieto,** Edwards 382, Valparaiso.

16) **R. Esmeraldas,** Casilla 209, Iquique.

17) **R. Sur,** Casilla 60-D, Valdivia.

18) **R. Norte Verde,** Casilla 252, Ovalle. – **L.P.:** Dir.: F. Morales.

19) **R. El Sur,** Casilla 482, Concepcion. – **L.P.:** Dir.: M. S. Lagos.

20) **R. Chilena,** Casilla 10277, Santiago. – **L.P.:** Dir.: F. Marquez R. – **D.Prgr.:** "**German Hour**": D. 17.00–18.00, 21.00–22.00.

21) **R. Lautaro,** Casilla 214, Talca. – **L.P.:** O.: Abasolo y Tarud Ltda.

22) **R. La Frontera,** Casilla 516, Temuco. – **L.P.:** Dir. D. de Mayo.

23) **R. Santiago,** Casilla 10195, Santiago. – **L.P.:** Dir. R. Vergara. – **D. Prgr.:** "**German Hour**": D. 17.35–18.00.

24) **R. Coya,** Maria Elena, Antofagasta and Casilla 13260, Santiago.

25) **R. Del Pacifico,** Casilla 3591, Santiago. – **L.P.:** Dir.: R. Vivado.

26) **R. Del Salitre,** Casilla 7-D, Iquique.

27) **R. Concordia,** Casilla 167, Valdivia. **L.P.:** Dir.: A. Alied.

28) **R. Almirante Latorre,** Casilla 358, Talcahuaño

29) **R. Sago,** Casilla 35-O, Osorno. – **L.P.:** Mgr.: J. Kemp M. Dir.: G. Wittwer H. – **D.Prgr.:** 11.30–04.00. – **V.** by letter. – **F.PL.:** 10 kW.

30) **R. Recreo,** Calle Valparaiso 625, Viña del Mar, Casilla 1735, Valparaiso. – **L.P.:** Mgr.: E. Godoy Donoso. Dir. Tec.: J. C. Tribuzio. – **D.Prgr.:** 12.00–04.00.

31) **R. Polar,** Casilla 447, Punta Arenas.

32) **R. Corp. Nacional de Comercio,** Casilla 1555, Santiago.

33) **R. El Roble,** Casilla 37, Parral. – **L.P.:** Dir.: J. Rogazy.

34) **R. Riquelme,** Casilla 141, Coquimbo. – **L.P.:** Dir.: C. Nieme

35) **R. Condell,** Yungay 10, Curio. – **L.P.:** Dir.: A. Cuerra.

36) **R. Prat,** Casilla 4042, Santiago. – **L.P.:** Dir. P. Valenzuela.

37) **R. Llanquihue,** Casilla 356, Puerto Montt.

38) **R. Caupolicán,** Casilla 506, Valparaiso.

40) **R. Toco,** Central Maria, Tocopilla.

41) **R. Rancagua,** Casilla 21, Rancagua. – **L.P.:** Dir.: J. Romero.

42) **R. Austral,** Casilla 40 D, Punta Arenas.

43) **R. Los Castanos,** Casilla 534, Viña del Mar.

44) **R. Centenario,** Casilla 18, San Javier. – **L.P.:** Dir.: M. Gaete.

45) **R. José Miguel Carrera,** Tenderini 115, piso 9, Santiago.

46) **R. Simón Bolivar,** Casilla 318, Concepcion. – **L.P.:** Dir.: A. Jaen.

47) **R. Cristobal Colón,** Casilla 89–V, Valparaiso.

48) **R. Atacama,** Casilla 48, Copiapo.

49) **R. Valparaiso,** Casilla 1096, Valparaiso.

50) **R. Lircay,** Casilla 450, Talca. – **L.P.:** Dir.: H. Vaccaro.

51) **R. El Morro,** Arica.

52) **R. Nacional,** Casilla 10310, Santiago. – **L.P.:** L. H. Sorrel.

53) **R. Nuble,** Casilla 21-B, – **L.P.:** Dir.: V. Bustos.

54) **R. Baquedano,** Casilla 758, Valdivia. – **L.P.:** Gen. Man.: C. Cockbaine. – **D.Prgr.:** 12.00–18.30, 20.00–03.00. – **V.** by QSL-card.

55) **R. Cochrane,** Casilla 887, Valparaiso. – **L.P.:** Dir.: R. Arellano.

56) **R. La Discusión,** Casilla 14-D, Chillan. – **L.P.:** Dir.: A. Lagos.

57) **R. Cervantes,** Casilla 4650, Santiago. – **L.P.:** Dir.: L. Leiva S.

58) **R. Pampa,** Edif. F.F.C.C., Of Pedro de Valdivia, Antofagasta.

59) **R. Central,** Casilla 119, Rancagua. – **L.P.:** Dir.: O. Massoni.

60) **La Voz del Sur,** Casilla 226, Punta Arenas.

61) **R. Pudeto,** Casilla 9-D, Valdivia. – **L.P.:** Dir.: R. Gomez.

62) **R. Chacabuco,** Casilla 252, Quillota. – **L.P.:** Dir.: E. Lopez.

63) **R. Araucania,** Casilla 462, Concepcion. – **L.P.:** Dir.: R. Arjona.

64) **R. El Loa,** Casilla 439, Antofagasta. – **L.P.:** Dir.: J. A. Garcia A.

65) **R. Independencia,** Casilla 132, Molina. – **L.P.:** Dir.: R. Jara G. – **D.Prgr.:** 11.00–06.00. – **V.** by QSL-card.

66) **R. El Cobre,** Casilla 21, Rancagua.

67) **R. Magallanes,** Casilla 3724, Santiago. – **L.P.:** Dir.: S. Guttman

68) **R. Arauco,** Casilla 6, Angol. – **L.P.:** Dir.: J. Abasolo.

69) **R. Universidad Santa Maria,** Av. Los Placeres 401, Valparaiso.

70) **R. Manuel Rodriguez,** Casilla 147, San Fernando.

O. I. R.'s
Documentation and Information
BULLETIN

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Ve Smeckách 30, Prague 2, Czechoslovakia.

71) **R. Sud America**, Goycoolea 117, Cisterna-Santiago
72) **R. Patrio Lynch**, Vivar 489, Iquique. – **L.P.:** Dir.: L. R. Morales.
73) **R. Soberania**, Casilla 11-D, Linares. – **L.P.:** Dir. R. Abasolo.
74) **R. Aconcagua**, Casilla 100, San Felipe. – **L.P.:** Dir.: G. Gonzalez.
75) **R. Cronos**, Bulnes 79, Santiago. – **L.P.:** Dir.: G. Pacheo.
76) **R. Sargento Aldea**, Casilla 38, San Antonio.

R. MILITAR AUSTRAL (Military) ..
ADDR.: Punta Arenas. **Station:** CD125 kc/s 240 m 0.5 kW. **S.W.** CE920 9200 kc/s 32.61 m 0.5 kW. – **D.Prgr.:** 00.00-03.30.

★ COLOMBIA ★

L.T.: GMT ÷ 5 h. – **L.:** Spanish. – Rcvrs.: 2.500.000
All stations commercial exc. R. Nacional (Official) and those marked with [1]) (Cultural).

MINISTERIO DE COMUNICACIONES, DIRECCION GENERAL DE RADIOCOMUNICACIONES, Bogota.

Short Waves * inactive. Call: HJ...

Call	kc/s	m	kW	m.w.	Name & h. of tr.
1) GO	3250	92.31	10	1580	R. Sutatenza: see below.
2) EP	4765	62.95	3	1210	R. dif. Occidente 10.45–05.00
3) AB	*4780	62.76	5	730	Emisoras Unidas
4) FU	4795	62.54	1	1250	La Voz del Comercio
5) TB	*4795	62.54	10	800	R. dif. Militar
6) DU	*4805	62.43	1	1410	Universidad de Antioquia
7) BC	*4815	62.31	1	1270	La Voz de Cucuta
8) HC	4825	62.18	1	1350	R. Nariño 12.00–04.00
9) KE	4835	62.05	1	920	R. Continental 13.00–04.00
10) GF	4845	61.92	1	1130	R. Bucaramanga 11.00–04.00
11) FV	4855	61.79	1	1240	R. Neiva 11.00–04.00
12) FA	4865	61.66	1	1330	La Voz de Pereira 12.30–04.00
13) BG	4875	61.54	1	1350	La Voz del Norte 11.30–04.00
14) CH	*4895	61.29	5	890	La Voz de la Victor
15) AG	4898	61.24	1	1050	R. Atlantico 11.30–04.00
16) EQ	4915	61.04	1	1380	La Voz del Cauca 11.30–04.00
17) LF	4935	60.81	1	1440	Ondas de Ibague 11.00–04.00
18) CW	4945	60.66	1	1160	R. Sur America 11.00–05.00
19) CA	4955	60.54	10	680	R. Televisora Nac. 12.10–05.00
20) AF	*4965	60.42	5	930	Emisoras Fuentes
21) FW	5020	59.76	1	1050	Transmisora Caldas 12.00–04.00
22) DJ	5040	59.52	1	1480	La Voz del Choco 12.00–02.00
23) DW	5055	59.36	10	970	La Voz de Medellin 11.50–04.00
1) GC	5075	59.13	25	1580	R. Sutatenza: see below.
24) CF	5960	50.34	1	870	La Voz de Bogota 11.00–05.00
25) LY	*5980	50.16	10	650	R. Libertad
26) FC	*6010	49.92	25	1080	La Voz de Armenia
27) CX	6018	49.85	10	710	La Voz de Colombia 12.00–06.00
28) LB	6040	49.67	10	950	La Voz del Tolima 12.00–04.00
29) EX	6054	49.55	5	1030	R. Pacifico 11.00–04.30
30) FB	*6105	49.14	5	620	R. Manizales
5) TB	6128	48.96	10	800	R. dif. Militar 17.00–04.00
31) EV	*6135	48.90	1	1150	La Voz del Valle
32) KJ	6160	48.70	5	600	Emisora Nueva Gran. 11.00–05.00
19) CQ	6185	48.50	10	680	R. Televisora Nac. 12.10–05.00
33) EZ	6195	48.43	1	900	La Voz de Cali 11.00–05.00
5) TC	*9620	31.19	10	800	R. dif. Militar
19) KZ	11680	25.68	10	680	R. Televisora Nac.: 12.10–05.00

Medfum Waves: Call: HJ... ° = short wave also FM.

Call	kc/s	kW	Call	kc/s	kW	Call	kc/s	kW
32) KL	° 600	25*	46) AQ	1020	10*	66) BJ	1170	1
30) FD	° 620	20*	47) CC	°1020	1*	67) GK	1180	1*
34)	640		29) ER	1030	1*	68) CD	1180	1
25) DO	° 650	25	48) DR	1040	1	69) DT	1190	1*
19) KA	° 680	10	49) CJ	1040	1*	70) CV	1200	1*
27) CZ	° 710	10	15) AH	°1050	1	71) AB	1200	1
3) AN	° 730	10*	21) FJ	°1050	1	2) EL	°1210	5*
35) CU	740	10*	50) CG	1060	2.5*	72) BE	1210	1*
36) DK	770	50*	51) AZ	1060	1	73) AJ	1220	1
5) TA	° 800	10	52) DZ	1070	1*	74) KR	1220	1*
37) ED	820	50*	53) JF	1070	5*	75) FK	1230	10*
38) KC	840	50*	26) FM	°1080	10*	11) FP	°1240	1
39) EP	860	10*	54) AT	1080	1	76) KW	1240	1
24) CE	° 870	10*	55) EO	1090	10	77) DI	1240	9.5*
40) DM	880	10	56) FQ	1100	5*	4) FG	°1250	5*
14) CI	° 890	10*	57) CN	1100	1*	79) KN	1260	2
33) EY	° 900	10*	58) AC	1110	1	7) BB	°1270	1*
9) CS	° 920	10*	59) EW	1110	1*	80) FT	1270	1*
20) AE	° 930	10	60) DC	1120	10*	81) AR	1280	5
41) GB	940	10*	10) GE	°1130	1*	82) DA	1280	1*
28) LA	° 950	10*	61) JC	1130	1	83) CK	1290	1*
19)	960	10	62) CL	1140	2	38a) AO	1290	1*
23) DB	° 970	10*	31) EB	°1150	1	84) BK	1300	1
42) FN	970	10	63) GJ	1150	1	85) EC	1300	1
43) ES	990	10*	64) DL	1150	0.75	86) AK	1310	1
44) DQ	1010	1*	18) CO	°1160	1*	87) IA	1310	1
45) AI	1010	5*	65) FX	1170	1*	88) LB	1310	1
89) GN	1320	1*	104) BH	1410	1	120) LE	1490	1
12) FE	°1330	1*	6) DV	°1410	0.5	121) CY	1500	1
90) AD	1330	1	105) BD	1420	1	122) ET	1510	1
13) BF	°1350	1	106) LG	1430	1	123) BB	1520	1
91) KY	1350	1	107) EK	1430	1	124) BA	1530	0.1
92) DS	1350	1	17) FL	°1440	1	125) DF	1530	0.25
8) HA	°1350	1	108) BZ	1440	1	126) JE	1540	1
93) FR	1360	1*	109) FI	1450	1	127) DN	1540	0.15
94) FH	1360	1	110) EG	1450	0.75	128) GD	1540	0.35
95) BO	1370	1	111) GM	1450	1	129) CP	1550	0.1
96) KX	1370	1	112) FZ	1460	1	130) GA	1560	1
97) EN	1370	1	113) EJ	1460	1	131) KU	1560	0.25
98) GH	1380	1*	114) AL	1460	1	132) FN	1570	0.2
16) EA	°1380	0.75	115) FC	1470	1	133) KG	1570	0.1
99) AS	1390	0.75	116) HB	1470	1	134) KP	1580	0.15
100) FO	1400	1	117) BK	1470	0.35	1) GP	°1580	0.75
101) JA	1400	1*	118) DI	1470	1	135) DD	1580	0.2
102) EI	1410	1	119) CL	1480	1	136) GU	1590	1*
103) FS	1410	0.75	22) DH	°1480	1*			

Short Waves

1) Accion Cultural Popular, Escuelas Radiofónicas, Calle 20 No. 9–45, Bogotá, D.E. **Cable:** Radiofónicas, Bogotá. – **L.P.:** Dir. Gen.: J. J. Salcedo G. Dir. Tec.: L. M. Pick P. – **N.:** 12.00 (W), 23.20, 01.00 (W), 03.00 (W). – **ANN.:** "Por Escuela y la Cultura Transmite Radio Sutatenza del Servicio del Radiodifusoras de la Accion Cultural Popular desde Sutatenza en Bogotá, Republica Colombia". – **V.** by QSL-card. R.p. preferred.
2) Carrera la No. 16-89, Cali. – **L.P.:** Dir.: G. Holquin H.
3) Apt. Aéreo 154, Nal. 324, Barranquilla. – **L.P.:** Mgr.: J. Tobón L. – **D. Prgr.:** 730 kc/s: 11.00–05.00. – **V.** by QSL-card.
4) Armenia. – **L.P.:** Mgr.: L. Herrera.
5) Ministerio de Guerra, Comando General de las FF.AA., Departemento No. 2, Bogotá. (Colombian Armed Forces). – **ANN.:** "Radiodifusora Militar de Colombia, Bogotá". – **V.** by QSL-card.
6) Carrera 43 No. 47–96, Medellin.
7) Av. 5a No. 10–11, Cúcuta. – **D.PRGR.:** 11.00–05.00.
8) Apt. Aéreo 390, Carrera 24 No. 21–23, Pasto. – **L.P.:** Dir. Gen.: E. Becerra. – **V.** by QSL-card or letter.
9) Apt. Aéreo No. 53–42, Bogotá. – **L.P.:** Mgr.: J. Palacios. – **V.** by letter.
10) Apt. Aéreo 572, Postal 47, Bucaramanga. – **L.P.:** Mgr.: G. Sorzano. – **V.** by letter.
11) Calle 7a No. 5–69, Neiva. **Cable:** Radioneiva. – **L.P.:** Mgr.: L. Garcia C. Dir. Tec.: Carlos Castillo. – **V.** by QSL-card.
12) Calle 18 No. 8–54 (3° piso), Pereira. – **L.P.:** Mgr.: J. Ortiz P.
13) Calle 9a No. 5–32, Cúcuta. – **L.P.:** Mgr.: S. Jordán P.
14) Carrera 7a No. 11–35, Bogotá. – **L.P.:** Dir. Gen.: A. Gaitan C.
15) Paseo Bolivar, Carrera Cuartel, Barranquilla. **Cable:** Emisatlan. – **L.P.:** Mgr.: M. A. Blanco. – **V.** by QSL-card
16) Apt. Aéreo 535, Popayan. – **L.P.:** Dir. Gen.: O. Burckhardt. Dir. Tec.: J. Musikka. – **N.:** 00.00. – **V.** by letter.
17) Edif. Raad, 2° piso, Ibague. – **L.P.:** Mgr.: L. E. Martinez.
18) Carrera 9a No. 12–23, 2° piso, Bogotá. **Cable:** Emisora. – **L.P.:** Dir. Gen.: G. D. Morales **Mgr.:** A. M. Arias – **Mbg.:** D. 03.00. – **V.** by QSL-card. – **F.PL.:** 10 kW tr. at S. Andrés.
19) Transversal 17 No. 25–65, Bogotá. – **L.P.:** Mgr.: F. Gomez Argudelo. – **D. Prgr.: English by Radio:** W. 12.15–12.30. – **N.:** W. 13.00 (exc. Mo.), 20.30, 22.30, 23.30, 01.30 (exc. Mo.), 04.45 (exc. Mo.), Sun. 18.00. – **ANN.:** "Radio Televisora Nacional de Colombia." – **V.** by QSL-card or letter.
20) Apt. Aéreo 91, Nal. 31, Cartagena. – **L.P.:** Mgr.: L. Fuentes L. – **D. Prgr.:** 930 kc/s: 11.00–05.00. – **V.** by QSL-card.
21) Calle 20 con Cra. 23, Teatro Cumanday, Manizales.
22) Apt. Aéreo 31–63, Medellin. **Cable:** Sonar. – **L.P.:** Mgr.: A. P. Vinasco. Dir. Tec.: A. Moreno.
23) Apt. Aéreo 1244, Medellin. – **L.P.:** Mgr.: M. F. Eusse C. – **N.** 12.00, 17.30, 24.00 – **V.** by letter.
24) Carrera 6a No. 14–88, Bogotá. – **L.P.:** Dir. Gen.: G. Uribe Th. – **D. Prgr.: Swedish:** Thurs. 02.00–02.30. – **V.** by letter.
25) Carrera 47 (Sucre), No. 53–29, Medellin. **Cable:** Radiolibertad. – **L.P.:** Mgr.: E. Sanin E. – **V.** by QSL-card or letter.
26) Carrera 16 entre Calles 19 y 20, Armenia. –**L.P.:** Mgr.: J. M. Toro E.
27) Carrera 9a No. 12–23, 3° piso, Bogotá. **Cable:** Vozcolombia. – **L.P.:** Mgr.: J. M. Leon. Dir. Tec.: A. J. Sanchez. – **N.:** 17.30, 23.30. – **ANN.:** "La Voz de Colombia – 710 en su radio." – **INT.-SIG.:** First notes from Grieg's Concerto in A-minor. – **V.** by QSL-card.
28) Apt. Aéreo 604, Ibaque. – **L.P.:** Mgr.: F. Saavedra. – **V.** by QSL-card or letter.
29) Apt. Aéreo 2180, Cali. – **L.P.:** Mgr.: J. Cordoba M. – **V.** by letter.
30) Apt. Aéreo 67, Nal. 175, Manizales. – **L.P.:** Mgr.: A. Hoyos A. – **D. Prgr.:** 620 kc/s: 12.00–04.00. – **V.** by letter.
31) Calle 23, No. 1–25, Cali. – **L.P.:** Mgr.: C. H. Aristizábal.
32) Carrera 15, No. 13–47, Bogotá. **Cable:** Nueva Granada. – **L.P.:** Dir. Gen.: J. A. Botero. – **V.** by letter.
33) Apt. Aéreo 1972, Calle 11, No. 9–20, Cali. **Cable:** Vozcali. – **L.P.:**

Mgr.: B. Tobon de la Roche. – V. by letter.
Medium Waves:
34) **R. Renacimiento**, Bogotá (under construction).
35) **R. Tricolor**, Bogotá. – **L.P.:** Mgr.: J. Vanegas.
36) **La Voz de Antioquia**, Maracaibo No. 46–80, Medellin. – **L.P.:** Mgr.: H. Restrepo. – **D. Prgr.:** 11.00–05.00. – **V.** by QSL-card.
37) **La Voz del Rio Cauca**, Carrera la No. 18–39, Cali. – **L.P.:** Mgr.: W. G. Sánchez. – **D. Prgr.:** 11.00–05.00.
38) **Emisora Nuevo Mundo**, Calle 19, No. 9–48, Bogotá. **Cable:** Nuevomundo. – **L.P.:** Mgr.: F. Londoño Henao. Dir. Tec.: L. A. Rocha. – **D. Prgr.:** 11.00–05.00. – **V.** by QSL-card.
39) **Voces de Occidente**, Carrera 14 No. 2–31, Buga.
40) **R. Vision**, Medellin. – **L.P.:** Mgr.: A. Sanchez.
41) **R. Eco**, Cali. – **L.P.:** Mgr.: H. Herrera B.
42) **La Voz del Café**, Carrera 8a No. 15–47, Pereira. – **L.P.:** Mgr.: R. I. Botero. – **D. Prgr.:** 11.00–05.00.
43) **R. Reporter**, Carrera 9a No. 10–45, Cali.
44) **Emisora Claridad**, Av. 10 de Mayo No. 49–53, Medellin.
45) **R. Calamary**, Barranquilla. – **L.P.:** Mgr.: E. Ariza.
46) **R. Miramar**, Apt. Aéreo 246, Cartagena. **Cable:** Miramar. – **L.P.:** Dir. Gen.: V. Nieto. Dir. Tec.: L. Mercante. – **D. Prgr.:** 11.00–05.00. – **V.** by letter.
47) **Emisora Mil Veinte**, Carrera 7a No. 24–78, Bogotá.
48) **La Voz del Triunfo**, Calle 51 (Boyaca), No. 51–31, Medellin.
49) **R. Progreso**, Calle 13 No. 14–17, Bogotá.
50) **R. Santa Fé**, Calle 17 No. 10–47, Bogotá. – **L.P.:** Mgr.: M. F. Lopez. Dir. Tec.: H. Bernal A.
51) **Emisoras Sinu**, Edif. Teatro Nariño, Monteria. – 11.00–05.00.
52) **R. Reloj**, Calle 53, No. 46–80, Medellin. – **D. Prgr.:** 24 h.
53) **R. Musical**, Calle 11 No. 9–20, Cali.
54) **R. Reloj**, Carrera 42, No. 23–46, Barranquilla. – **D. Prgr.:** 24 h.
55) **Ondas del Valle**, Carrera 5a No. 12–23, 3° piso, Cartago.
56) **La Voz del Pueblo**, Carrera 8a No. 15–89, Pereira.
57) **R. Reloj**, Calle 19 No. 8–48, Bogotá. – **D. Prgr.:** 24 h.
58) **Emisora Riomar**, Calle 32 No. 42–19, Barranquilla.
59) **R. Reloj**, Carrera 1a No. 18–39, Cali. – **D. Prgr.:** 24 h.
60) **Ecos de la Montana**, Calle 53 No. 52A–42, Medellin.
61) **R. Cartago**, Carrera 4a No. 10–62, Cartago.
62) **R. Girardot**, Calle 8a No. 10–19, 3° piso, Girardot.
63) **R. Belencito**, Belencito. – **Addr. & L.P.:** as 1).
64) **R. Cristal**, Medellin.
65) **La Voz del Ruiz**, Manizales.
66) **La Voz de Santa Maria**, Apt. Aéreo 540, Santa Maria. –
67) **R. Santander**, Calle 33 No. 15–11, Bucaramanga.
68) **Ondas del Fusacatan**, Fusagasuga.
69) **R. Nutibara**, Edif. Cardenas Medellin. **D. Prgr.:** 11.30–05.00.
70) **R. Popular**, Carrera 9a No. 13–42, Bogotá.
71) **R. Cordobesa**, Montería. – **L.P.:** Mgr.: R. Jimenez.
72) **Ecos de Ocaña**, Ocaña. – **L.P.:** Mgr.: A. Hernandez.
73) **La Voz de Barranquilla**, Barranquilla, – **L.P.:** Mgr.: H. Franco B.
74) **R. Industrial**, Bogotá. – **L.P.:** Mgr.: C. Rosales.
75) **La Voz Amiga**, Carrera 8a, Edif. Algira 3° piso, Pereira.
76) **R. Modelo**, Bogotá. – **L.P.:** Mgr.: H. Téllez.
77) **R. Bolivariana**, Apt. Aéreo 1178, Medellin. – **L.P.:** Dir. Gen.: A. U. Acevedo. Dir. Tec.: G. Estabar. – 17.15–19.00, 23.45–03.00.
79) **R. Metropolitana**, Carrera 7a No. 22–79, Bogotá.
80) **Ecos del Combeima**, Ibaque. – **D. Prgr.:** 11.00–05.00.
81) **La Voz de Cartagena**, Apt. Aéreo 246, Cartagena. – **L.P.: & D. Prgr.:** as 46).
82) **Siglo Veinte**, Carrera 51 (Bolivar), No. 59–53, Medellin.
83) **El Mundo en Bogotá**, Carrera 7a No. 17–14 3er piso, Bogotá. – **D. Prgr.:** 13.00–04.00.
83a) **R. Vigia**, Apt. Aéreo 154, Nal. 324, Barranquilla: 24 h.
84) **R. Valledupar**, Valledupar. – **L.P.:** Mgr.: S. Aristizábal.
85) **R. Libertador**, Carrera 3a No. 15–80, Cali.
86) **La Voz de la Patria**, Apt. Aéreo No. 231, Nal. 621, Barranquilla. **Cable:** Voz Patria. – **L.P.:** Gen. Mgr.: C. Vasallo M. – **D. Prgr.:** 11.00–05.00. – **V.** by QSL-card.
87) **R. Villavicencio**, Calle 5a, Carrera 6a, Villavicencio.
88) **R. San Eugenio**, Carrera 15 No. 15–32, Santa Rosa de Cabal.
89) **R. Barrancabermeja**, Barrancabermeja.
90) **R. Vigia**, Apt. Aéreo 91, Nal. 31, Cartagena. – **L.P.:** Dir. Gen.: R. Fuentes L. – **D. Prgr.:** 24 h. – **V.** by QSL-card.
91) **Ondas del Puerto**, Calle 14 No. 11–19, Girardot. – 11.00–05.00.
92) **La Voz de las Americas**, Carrera 51 (Bolivar), No. 51–40, Medellin.
93) **Ondas del Huila**, Banco Comercio, Neiva.
94) **La Voz de Anserma**, Anserma.
95) **Carvecerias Barranquilla y Bolivar**, Barranquilla.
96) **La Voz del Cundinamarca**, Bogotá. – **L.P.:** Mgr.: L. E. Rodriguez.
97) **R. Cultura**, Carrera 7a No. 16–42, Cali.
98) **R. del Comercio**, Calle 35 No. 12–66, Bucaramanga.
99) **R. Variedades**, Calle 35 No. 35–105, Barranquilla.
100) **R. Luz**, Carrera 22 No. 16–19, Manizales.
101) **R. Buaneventura**, Calle 5a, Carrera 2a, Buaneventura.
102) **Emisoras Guadalajara**, Carrera 3a No. 8–53, Buga.
103) **Ondas del Guali**, Honda.
104) **R. Magdalena**, Calle 7a No. 5–54, Santa Maria.
105) **R. Guaimaral**, Apt. No. 5–54, Cúcuta.
106) **La Voz de la Dorado**, Dorado. – **L.P.:** Mgr.: J. G. Pereira.
107) **R. Tulua**, Carrera 26, Calle 26 y 27, Tulua.
108) **Ondas del Riohacha**, Riohacha.
109) **Pregones del Quindio**, Calle 19 No. 14–42, Armenia. –
110) **La Voz del Belalcazar**, Calle 5a No. 5–81, Popayán.
111) **R. Sogamoso**, Sogamoso. – **L.P.:** Dir.: J. C. Medina.
112) **La Voz del Espinal**, Espinal. – **L.P.:** Mgr.: A. Useche.
113) **Armonias del Palmar**, Calle 29 No. 29–67 y 29–73, Palimra.
114) **R. Sincelejo**, Plaza Olaya Herrera, Sincelejo.
115) **R. Centinela**, Carrera 8a, Edificio Algira, Pereira.
116) **Ecos de Pasto**, Av. Santander No. 21–76, Pasto: 11.00–05.00.
117) **La Voz de la Gran Colombia**, Villa del Rosario (under constr.)
118) **Emisora Yarumal**, Yarumal.
119) **R. Garzón**, Calle 7a con Carrera 8a, Garzón.
120) **R. Armero**, Armero.
121) **R. Sutatenza**, Bogotá. – **L.P.:** as 1).
122) **R. Bolivar**, Av. 8a No. 10–110, Cali.
123) **R. Sevilla**, Carrera 50 entre Calles 49 y 50, Sevilla.
124) **La Voz de Pamplona**, Pamplona, N. de Santander. – **D. Prgr.:** 23.00–04.00. – **V.** by QSL-card.
125) **R. Pensilvania**, Pensilvania. – **L.P.:** Mgr.: H. Martin.
126) **R. Villa de Cespedes**, Tulua. – **L.P.:** Mgr.: R. Zuluaga P.
127) **Liceo Departemental**, Sonson.
128) **R. Chiquinquira**, Boyaca. – **L.P.:** Mgr.: C. Parroco.
129) **Emisora Paroquial**, Nomocón. – **L.P.:** Mgr.: R. A. Léon.
130) **R. Boyaca**, Apt. Nal. 96, Tunja. – **L.P.:** Dir. Gen.: G. Benavides G. Dir. Tec.: E. Rodriguez – **D. Prgr.:** 11.00–03.30. – **V.** by letter.
131) **La Voz de Maria**, Bogotá. – **L.P.:** Mgr.: L. E. Rodriguez E.
132) **R. Quimbaya**, Quimbaya. – **L.P.:** Mgr.: N. Duque A.
133) **La Voz del Carmelo**, Ospina Perez. – **L.P.:** as 128).
134) **R. Cultural**, Arbelaez. – **L.P.:** Mgr.: L. A. Garcia.
135) **Escuela Cultural**, Maceo. – **L.P.:** Mgr.: R. Curvo.
136) **Ondas del Fonce**, San Gil. – **L.P.:** Mgr.: G. Serrano.

★ ECUADOR ★

L.T.: GMT+5 h. – **L.:** Spanish, Quechua. – **Rcvrs.:** 50.000.
INSPECCION DE RADIO, Ministerio de Obras Publicas, Quito.
All stations comm. exc. 35) (Cultural) & 57) (Rel.)
STATIONS: Call: HC – – –

	Call	kc/s	m	kW	m.w.	Name and h. of transm.
1)	GB1	3325	90.23	0.25		R. Nacional Espejo
2)	4VL	3375	88.89	0.35		R. Alejo Lascano: 05.30–09.30, 00.30–04.00
3)	JP4	3385	88.63	0.25		Ondas Manabitas
4)	DY4	3945	76.05	0.3		R. Iris
5)	LR5	3955	75.85	0.3		La Voz de Alausi
6)	JC5	3958	75.78	0.2		La Voz de Salcedo
7)	JJ2	3960	75.76	0.2		Ecos del Agro
8)	1JH	3965	75.67	0.3		R. Turismo: 11.00–13.00, 17.00–19.00, 23.00–03.00
9)	HV4	3970	75.57	0.2		La Voz del Pueblo
10)	JA5	3990	75.19	0.25		R. Atenas
11)	GB4	3995	75.09	0.2	1390	R. Nacional Espejo
12)	AO5	4080	73.53	0.2		Voz del Tomebamba
13)	HG2	4500	66.67	0.2		Emisora Central
13a)	AU2	4620	64.94	0.25	1320	R. Atalaya: 13.00–05.00
14)	AJ2	4650	64.52	1	1050	R. dif. del Ecuador
15)	GB1	4680	64.10	5	1310	R. Nac. Espejo: 24 h.
16)	MX4	4700	63.83	0.2		R. Cenit: 13.00–04.15
17)	GI2	4710	63.78	0.25	1160	R. El Telegrafo: 13.00–04.00
18)	RM3	4725	63.60	0.3		R. Cultural de Machala: 13.00–04.00
19)	IM1	4740	63.23	0.25		La Voz de Imbabura
20)	SV5	4750	63.15	0.25		R. Amazonas
21)	LJ6	4755	63.10	0.3		La Voz de Bolivar
22)	FA4	4760	63.03	0.25		La Voz de Manabi: 01.00–03.30
23)	LC1	4780	62.76	0.2	824	R. Atahualpa
24)	DF4	4780	62.76	0.2		La Voz de Chone
25)	AS4	4789	62.65	0.25		La Voz de los Caras
26)	HV4	4800	62.50	0.3		La Voz de Jipijapa
27)	RC3	4810	62.37	0.25		R. Coro Santa Cecilia
28)	4DC	4815	62.31	1.5		R. Cenit: 12.30–14.30, 16.30–20.00, 22.30–04.00
29)	CV3	4850	61.86	0.25		Ondas del Zamora
30)	DR4	4870	61.60	0.25		R. Miramar
31)	1MJ	4890	61.35	3	1410	R. Gran Colomba: 11.00–14.00, 17.00–19.00, 23.00–06.00
32)	AR1	4910	61.10	0.2		La Voz del Montufar
33)	JX6	4920	60.98	0.2		R. Cultural Religiosa
34)	QR1	4923	60.94	1	1360	R. Quito: 11.15–04.30
35)	RCE	4930	60.85	1	1430	R. Casa de la Cultura: 11.30–13.00, 17.00–19.00, 00.00–03.15
36)	DC2	4960	60.48	0.25	1300	R. Cenit

Ecuador

Call	kc/s	m	kW	m.w.	Name & h. of transm.
37) MD2	4970	60.36	0.2		La Voz de la Peninsula
38) JC5	4980	60.25	2	1200	Ondas Azuayas: 10.45–04.30
39) RP1	5010	59.88	0.25	880	R. Católica: 00.00–04.30
40) BK2	5015	59.82	0.25	1220	R. El Mundo: 12.00–03.00
41) CB5	5015	59.82	0.25		La Voz de Azogues
42) AL5	5025	59.70	0.25		R. Nueva Austral
43) ET5	5050	59.41	0.2	1096	R. Roxi: 13.00–03.00
44) GT6	5195	57.75	0.3	1320	R. Continental
45) NL2	5510	54.45	0.2		La Voz del Campesino
46)	5700	52.62	0.3		R. Cotocachi: 23.00–03.05
46a)1FA	5782	52.06	1	1245	R. Metropolitana
47) DF1	5802	51.65	0.2		La Voz del Norte
48) FM1	5945	50.45	0.25		R. Equinoccial
49) JM1	5970	50.25	0.2		R. Tulcán
50) CD3	5975	50.21	0.4		R. Fatima
51) RT6	5980	50.17	0.3	1355	R. Paz y Bien
52) JZ3	5985	50.15	0.2		R. Trebol
53) GY6	5990	50.08	0.3		R. Luz: 12.00–14.00, 17.30–19.30 22.00–01.00, 02.00–04.00
54) 4FX	6015	49.88	1	1500	R. Manta: 12.00–14.00, 17.00–19.00, 23.00–04.00
55) TO5	6025	49.79	0.25	1270	R. Patrio, Voz del Civismo
56) PT5	6029	49.76	0.25		La Voz del P. Socorro
57) JB	6050	49.50	1	*)	La Voz de los Andes (see below)
58) 1AC	6060	49.50	0.25	1280	La Voz de la Dem.: 11.30–04.00
59) AQ2	6070	49.42	0.2	1450	R. Nueva Ortiz: 14.00–04.00
60) DE2	6080	49.34	0.3	800	R. Bolivar
61) VM6	6090	49.26	0.2		R. Once de Noviembre
62) FB2	6130	48.94	0.25	1140	R. Nacional Condor: 10.00–05.00
62a)	6140	48.86	2.3		Ondas del Volante: 10.00–03.00
63) LT4	6155	48.74	0.3		R. Costa Azul
64) PJ2	6170	48.62	0.2		R. Fluminense
65) FM6	6195	48.43	1.5	1550	R. Cosmopolita: 11.30–04.00
66) GE5	6295	47.66	0.25	1480	R. Mundial: 13.00–04.00
67) RL2	6400	46.88	0.2		R. Quinta Piedad: 02.00–04.00
68) UM2	9550	31.41	0.25	1270	R. Universal
69) JC3	9570	31.35			R. Fenix
57) JB	9745	30.78	1/40	*)	La Voz de los Andes: See below
57) JB	11915	25.18	30	*)	La Voz de los Andes: See below
57) JB	15115	19.85	1/40	*)	La Voz de los Andes: See below
57) JB	17890	16.77	30	*)	La Voz de los Andes: See below
46a)1FA	19600	15.31	10	1245	R. Metropolitana

*) 700/760 kc/s

Medium Waves: HC— °) Short Wave.

Call	kc/s	kW	Call	kc/s	kW	Call	kc/s	kW
70) PX1	670	0.25	84) UN2	1027	0.25	58) 1AB	°1280	0.25
57) JB	°700	25	14) AK2	°1050	1	36) DC2	°1300	0.25
57) JB	°760	10	85) VP1	1065	0.3	15) GB1	°1310	0.3
60) DEZ	°800	0.3	86) FD2	1080	0.2	13a)AUZ	°1320	0.25
71) CA2	802	0.2	43) EA5	°1096	0.2	44) HQ6	°1320	0.2
23) LC1	°824	0.2	87) LR1	1111	0.25	51) RT6	°1355	0.3
72) FZ2	850	0.3	88) LA2	1115	0.2	34) RQ1	°1360	1
73) NC1	855	0.2	62) FB2	°1140	0.25	95) BX2	1370	0.25
39) RP1	°880	0.2	89) CX5	1150	0.25	96) GR6	1380	0.2
74) VL2	918	0.3	17) ET2	°1160	0.25	11) GB4	°1390	0.2
75) CM1	920	0.35	90) BEZ	1190	0.3	97) FL2	1400	0.3
76) CP2	935	0.25	38) JE5	°1200	1	31) 1MI	°1410	2
77) MC2	955	0.2	91) 1GU	1210	1	98) MB2	1425	0.25
78) NC1	960	0.25	40) BK2	°1220	0.25	35) RCE	°1430	0.25
79) AR1	970	0.2	92) 6JM	1225	0.6	99) GB6	1440	0.3
80) AW2	975	0.3	46a)1FA	°1245	0.5	59) AQ2	°1450	0.2
81) HH1	990	0.3	93)	1245	0.25	66) GE5	°1480	0.25
82) FU2	1010	0.2	94) RB2	1250	1	54) 4EB	°1500	0.5
83) LV1	1020	0.2	68) UM2	°1270	0.25	100) 1VR	1520	1
			55) TO5	°1270	0.25	65) EJ6	°1550	1

FM: 57) 105.9, 107, 107.8 mc/s – 0.25 kW.

Short Waves:

1) Otavalo. – **L.P.:** Dir. G. Berborich.
2) Calle Bolivar 800, Jipijapa. – **L.P.:** Dir. J. Villagrán Lara.
D. Prgr.: N. 02.00. – **Mbg.:** 02.30 – **V.** by QSL-card or letter.
3) Sucre. – **L.P.:** Dir. J. Pinargote.
4) Casilla 142, Esmeraldas. – **L.P.:** Dir. D. A. Tenorio.
5) Alausi. – **L.P.:** Dir. L. Rodriguez.
6) S. Miguel. – **L.P.:** Dir. R. Almeida P.
7) Quevedo. – **L.P.:** Dir. J. C. J. Faraud.
8) Otavalo. – **ANN.:** "R. Turismo en Otavalo, Ecuador".
9) Jipijapa. – **L.P.:** Dir. H. Vasqueza.
10) Cuenca. – **L.P.:** O.: J. Andrade y Cordere.
11) P.O.Box 662, Esmeraldas. – **L.P.:** Mgr.: H. A. Endara.
12) Apt. 23, Cuenca. – **L.P.:** Dir. H. Espinoza.
13) Vinces. – **L.P.:** Dir. H. G. Germán.
13a) Rumichaca 930, Guayaquil. – **L.P.:** Dir. V. Paladines.
14) Apartado 4144, Guayaquil.
15) Esmeraldas 856, Quito. – **L.P.:** as 1). – **V.** by QSL-card.
16) Portoviejo. – **L.P.:** Dir. W. Delgado.
17) 10 de Agosto 601, Guayaquil.
18) Casilla 695, Machala. – **V.** by letter.
19) Apt. 59, Ibarra. – **V.** by QSL-card.
20) Cuenca. – **L.P.:** Dir. A. V. Toral.
21) Guaranda. – **L.P.:** Dir. L. Alarcón.
22) Portoviejo. – **L.P.:** Dir. C. C. Canarte.
23) Sucre 251, Quito. – **L.P.:** Dir. C. Lorrea C.
24) Chone. – **L.P.:** Dir. O. C. Intriago.
25) Sucre 1922, Bahia. – **L.P.:** Dir. A. Nevares P.
26) Jipijapa. – **L.P.:** Dir. Dr. M.M. Lucio.
27) Asoc. Juventud Femenina, Loja.
28) Manta. – **L.P.:** Dir. Gen.: W. Delgado Cepeda. – **N.:** 13.00, 17.00.
29) 24 de Mayo, Loja. – **L.P.:** Dir. C. M. Valarezo.
30) Bahia. – **L.P.:** as 16).
31) Casilla 2246, Quito. – **D.Prgr.:** 1410 kc/s 10.30–06.00. – **N.:** 11.00, 17.50, 03.00. – **ANN.:** "Desde Quito, Relicario de Arte en América, transmiten Emisoras Gran Colombia, 1410 y 4890 kc/s". – **V.** by QSL-card or letter. – **F.PL.:** 25 kW s.w.-tr. 1959.
32) Centre Obrero, San Gabriel.
33) Baños. – **L.P.:** Dir. F. J. del Rosario P.
34) Apartado 57, Quito. – **L.P.:** Dir. Gen.: D. G. Maldonado Q. Dir. For. Rel.: A. Jarrin M. – **N.:** 5 min. every h. on the h. – **V.** by letter. – **F.PL.:** 5 kW m.w. & s.w.
35) Casilla 67, Quito. – **D. Prgr.:** N: 11.45, 18.35, 00.50.
36) 9 de Octubre 608, Guayaquil. – **L.P.:** as 16).
37) La Libertad. – **L.P.:** Dir. M. Pinargote P.
38) Apt. 4980, Cuenca. – **L.P.:** Dir. Gen.: Dr. J. Cardoso F. Mgr.: L. A. Cardoso F. – **N.:** 11.30, 17.00, 01.30. – **V.** by letter. – **F.PL.:** m.w. 5 kW.
39) Cuenca y Mejía, Quito. – **L.P.:** Dir. M. Rojas.
40) 9 de Octubre 308, Guayaquil. – **L.P.:** Dir. G. Vergara J.
41) Concejo Municipal, Azogues.
42) Cuenca. – **L.P.:** Dir. D. Pinos.
43) Teatro Roxi, Riobamba. – **L.P.:** Dir. E. Abdo.
44) Meray Bolivar, Ambato. – **L.P.:** Dir. G. Tramontana.
45) Naranjal. – **L.P.:** Dir. P. Cuadrado.
46) Santa Ana de Cotacachi, Imbabura Province.
46a) Apartado 2850, Quito. – **V.** by letter.
47) Ibarra. – **L.P.:** Dir. F. Dávila F.
48) Av. Mariano Acosta, Ibarra. – **L.P.:** Dir. A. Térán.
49) Tulcán. – **L.P.:** Dir. J. Betancourt P.
50) Loja. – **L.P.:** Dir. G. Eguiguren.
51) Ambato. – **L.P.:** Dir. P. Rodriguez.
52) Zaruma. – **L.P.:** Dir. E. Guzmán M.
53) Calle Quito 418, Apt. 240, Ambato. – **L.P.:** Dir. B. M. Soria.
54) Apt. 4869, Av. 24 de Mayo, Manta. – **L.P.:** Dir. Gen.: E. Bowen R. – **N.:** 12.30, 17.00, 23.30. – **Mbg.:** 02.00. – **ANN.:** "Transmite Radio Manta, con sus estaciones– – – –, la mas antigua y potente emisora del puerto. Desde Manta ciudad de turismo y primer puerto marítimo en la Provincia de Manabí." - **V.** by QSL-card or letter. - **F.PL.:** 5 kW.
55) Riobamba. – **L.P.:** Dir. T. O. Carrasco.
56) Cuenca. – **L.P.:** Dir. J. C. M. Salazar.
57) Casilla 691, Quito. – **Cable:** "Vozandes". – **L.P.:** Pres. Clarence W. Jones. Field Dir.: Abe C. Van Der Puy. Vice-Pres. & St. Dir.: Robert C. Savage. Dir. English Prgr.'s: Vern Van Hovel. Dir. Russian Prgr.'s: Constantine Lewshenia. Dir. German Prgr.'s: David Nightingale. Dir. Swedish Prgr.s: Dolores Van der Puy.

HOME SCE. in Spanish: D. 10.30–04.45.
10.30–11.00 on 700, 760, 6050, 15115 kc/s
11.00–14.00 on 700, 760, 6050, 9745, 11915, 15115 kc/s
14.00–17.00 on 700, 760, 6050, 9745 kc/s
17.00–19.00 on 700, 760, 6050, 9745, 11915, 15115 kc/s
19.00–24.00 on 700, 760, 6050, 9745 kc/s
00.00–02.00 on 700, 760, 6050, 9745, 11915, 15115 kc/s
02.00–04.45 on 700, 760, 6050 kc/s
N.: 11.30, 12.30, 17.30 (W), 20.30 (W), 01.30 (W), 02.30 (W), 04.00. – **"English by Radio".** Tues.-Sat. 01.40–01.50. – **"Symphony Hour".** Sun. 13.00–14.00. **Classical Concert:** D. 03.00–04.00.

FOREIGN SERVICE:

English	kc/s	Beamed areas
06.30–10.00[1]) D.	6050, 9745, 11915, 15115	So. Pacific, Europe
10.30–11.00 D.	9745, 11915	So. Pacific, Europe
14.00–15.00 D.	15115, 17890*	Americas
15.00–15.30 Sat.	15115, 17890*	Americas
19.00–20.30[2]) exc. Mo.	15115, 17890*	Europe
23.30–24.00[3]) exc. Mo.	15115, 17890*	W. Indies
02.00–05.00[4])exc. Tues.	9745, 11915, 15115	No. & So. America

[1]) Sun to 09.30: "Southern Cross Salute". [2]) "Quito-Calling", [3]) „Caribbean Call". [4]) „Ecuadorean Echoes".

French		
20.30–21.00 exc. Mo.	15115, 17890*	Europe
German		
05.30–06.00 exc. Tues.	6050, 9745, 11915, 15115	Europe
15.00–16.00 Sun.	15115, 17890*	Europe, Americas
21.00–21.30 exc. Mo.	15115, 17890*	Europe
23.00–23.30 exc. Mo.	15115, 17890*	Europe

Russian.	kc/s	Beamed areas
05.00–05.15 exc. Tues.	6050, 9745, 11915, 15115	E. Europe
10.00–10.30 D.[1])	6050, 9745, 11915, 15115	So. Pacific, Europe
16.00–17.00 Sun.	15115, 17890*	Europe, America s
22.30–23.00 exc. Mo.	15115, 17890*	E. Europe

[1]) Fri. in Ukrainian.

Spanish:		
05.15–05.30 exc. Tues.	6050, 9745, 11915, 15115	Spain, Europe
06.00–06.30 D.	6050, 9745, 11915, 15115	Spain, Europe
22.00–22.30 exc. Mo.	15115, 17890*	Spain, Europe
Swedish:		
09.30–10.00 Sun.	6050, 9745, 11915, 15115	So. Pacific, Europe
21.30–22.00 exc. Mo.	15115, 17890*	Europe

* may be replaced by 11915 kc/s.

ANN.: E.: "These are fifty thousand watt radio stations HCJB located near the line of the Ecuator with studios in the capital city of Quito in the republic of Ecuador. We are serving our international audience on the 19, 25 and 31 meter bands. The time in Quito is – – – the same as – – – – GMT. These are radio stations HCJB Quito, Ecuador, South America".

V. Listeners reports are wanted – these are studied by our engineers. If requested they are answered by QSL-card, in other cases by letter. – **PUB.**: International prgr. schedule free on request.

58) Apt. 288, Caldas 501, Quito. – **L.P.**: Dir. A. N. Mucarzel.
59) Esmeraldas 1912, Guayaquil. – **L.P.**: Dir. R. Ortiz.
60) Distribuidora S.A., Guayaquil.
61) Latacunga. – **L.P.**: Dir. V. H. Muños.
62) Boyacá 1205, Guayaquil. – **L.P.**: Dir. R. Sierra.
62a) Casilla 726, Azogues. – **V.** by letter.
63) Portoviejo. – **L.P.**: Dir. J. Cavallero.
64) Babahoyo. – **L.P.**: Dir. J. P. Salvador.
65) P.O. Box 261, Ambato. – **L.P.**: Dir. Gen.: L. E. Villalobos Vela. – **N.**: 13.30, 15.30, 21.45, 01.30. – **Nat. music**: 12.30, 18.30. – **Mbg.**: 16.00–17.00. – **ANN.**: "This is R. Station HCFM6 R. Cosmopolita en Ambato-Ecuador, S. America". – **V.** by letter.
66) Riobamba. – **L.P.**: Dir. G. Encalada.
67 P.O. Box 307, Guayaquil. **D. Prgr.**: Wed. only.
68) Cia. Industria Universal, Guayaquil.
69) Cia. Industrial Financiera, Zaruma.

Medium Waves:

70) **R. Victoria**, Venezuela 1231, Quito.
71) **R. Atalaya**, Milagro. – **L.P.**: Dir. V. Paladines.
72) **R. El Triunfo**, 6 de Marzo 1004, Guayaquil.
73) **R. 24 de Mayo**, Benalcázar y 24 de Mayo, Quito.
74) **La Voz Liberal**, Guayaquil. – **L.P.**: Dir. A. M. Eliman.
75) **R. Colón**, Colón 1072, Quito. – **L.P.**: Dir. C. Mantilla.
76) **R. Ifesa**, Cia. Industrial S.A., Guayaquil.
77) **La Voz de los Rios**, Babahoyo. – **L.P.**: Dir. M. Campodónico.
78) **R. Cosmopolita**, R. Javier, R. Noticiero Nacional, Quito.
79) **Ondas Carchenses**, Tulcán. – **L.P.**: Dir. Dr. A. P. Páez.
80) **Ondas del Pacifico**, Colón 234, Guayaquil.
81) **R. Tarqui**, Plaza del Teatro, Quito. – **L.P.**: Dir. G. Herdoiza.
82) **R. Progreso**, 10de Agosto 970, Guayaquil.
83) **La Voz de la Verdad**, Plaza Sto. Domingo, Quito.
84) **R. Unidad Nacional**, Guayaquil.
85) **R. dif. Libertad**, Rocafuerte 1017, Quito.
86) **R. Hollywood**, Vélez 534, Guayaquil. – **L.P.**: Dir. G. Enderica.
87) **R. Comercial**, Benalcazar 753, Quito.
88) **R. América**, Luque 910, Guayaquil. – **L.P.**: Dir. L. F. Alban.
89) **La Voz de Riobamba**, Riobamba. – **L.P.**: Dir. J. Cavallero.
90) **R. Excelsior**, Guayaquil. – **L.P.**: Dir. F. Rodriguez de C.
91) **R. Atlantida**, Plaza del Teatro, Quito. – **L.P.**: Dir. G. Ulloa. **Dir. Tec.**: V. O. Pallares. – **D.Prgr.**: 11.30–04.00. – **V.** by letter. – **F.PL.**: s.w.tr. 31 m.b. 10 kW 1959.
92) **R. Sira**, Ambato. – **L.P.**: Dir. J. Mancero R.: 10.45–04.30.
93) **R. Central**, 10 de Agosto 360, Quito. – **L.P.**: Dir. L. Calderon.
94) **La Voz del Litoral**, Casilla 4226, Guayaquil. – **D.Prgr.**: 12.30–04.00.
95) **R. Casa de la Cultura**, Casa Culturiana Ecuatoriana, Guayaquil.
96) **R. Imperial**, Latacunga. – **L.P.**: Dir. J. G. Leroux.
97) **R. Continental**, Colón 520, Guayaquil. – **L.P.**: Dir. J. F. Ricuarte.
98) **R. Guayaquil**, Lavallen 222, Guayaquil.
99) **R. Nacional Espejo**, Ambato. – **L.P.**: as 1).
100) **R. Cordillera**, Apt. 1003, Quito. – **L.P.**: Dir. Gen.: E. H. Terán, Dir. Eng.: G. Villamar, Dir. Tec.: R. Torres. – **D.Prgr.**: **Spanish:** 11.00–21.00, 23.00–04.30. **English:** 04.30–05.30. – **V.** by letter.

★ FALKLAND ISLANDS (British) ★

L.T.: GMT÷4 h. – **L.**: English. – **Rcvrs.**: 500.

FALKLAND ISLANDS BROADCASTING SERVICE (Go.)

The service is designed primarily for the people of the Falkland Islands, but also the Falkland Island Dependencies, many miles to the south, where there are isolated British Bases in Grahamland, the South Shetland and South Orkney Islands.

ADDR.: The Director of Broadcasting, Stanley. – **Cable**: Broadcasts. – **L.P.**: Dir. Ch. T. Reive, Chief Eng.: A. Mercer.

HOME SERVICE: 585 kc/s 513 m – 3958 kc/s 75.78 m – 0.5 kW. W.: 22.45–(Sat. 21.30) 01.00, Sun. 21.30–00.30.

ANN.: "This is Falkland Islands Broadcasting Station at Stanley". – **V.** by letter. Reports from S. America only.

★ GUIANA (British) ★

L.T.: GMT÷3¾ h. – **L.**: English. – **Rcvrs.**: 65.000.

BRITISH GUIANA BROADCASTING CO. LTD. (Comm.)

ADDR.: St. Philip's Green, Hight Street, Georgetown. – **Cable**: "Broadcast" – **L.P.**: Mgr.: P.E.M. Hesketh. Sales Mgr.: U. A. Gouveia. Dir. Tec.: E. R. McDowell.

HOME SERVICE: ZFY R. Demerara.

560 kc/s 536 m 10 kW – 3255 kc/s 92.15 m 2 kW
760 – 395 – 10 – – 5981 – 50.17 – 2 –

On 560 kc/s: W.: 09.45–11.45, 14.45–16.45, 21.45–02.15 Sun. 10.45–13.45, 17.45–02.15. – **On 760 kc/s**: 09.15 (Sun. 09.45)–02.45 (Sat. 03.45). – **On 3255 kc/s**: 09.45–02.45 (Sat. 03.45). – **On 5981 kc/s**: 09.15 (Sun. 09.45)–19.45.

English: N (BBC): 11,00 16.00, 20.00, 23.00. **Local**: 09.50 (W), 11.15 (W), 16.10, 20.10 (W). 00.45. – **Mgb.**: 13.15 (W), 20.15. **Wrp.**: D. 00.54. – **Hindustani**: Mo. 00.15, Sat. 21.45, Sun. 09.45, 17.15.

ANN.: "This is Radio Demerara, British Guiana" – **V.** by QSL-card.

★ GUIANA (French) ★

L.T.: GMT÷4 h. – **L.**: French.

RADIO CAYENNE (Go.)

ADDR.: Radiodiffusion Française, Prefecture de la Guyane, Cayenne.

HOME SCE.: 6195 kc/s 48.39 m 1 kW: 22.30–03.00, 09.00–09.30, 14.30–17.00. – **N. in French**: 23.00, introduced and concluded by trumpet fanfare.

ANN.: "Ici Cayenne, Radiodiffusion Française". – **V.** by QSL-card.

★ PARAGUAY ★

L.T.: GMT÷4 h. – **L.**: Spanish. – **Rcvrs.**: 90.000.

ADMINISTRACION NACIONAL DE TELECOMUNICACIONES, Administracion General, Asuncion. Cable: "Antelco".

All st. com. exc. R. Nacional & R. Encarnacion (Go.).

STATIONS Short Waves: Call: ZP...

	Call	kc/s	m	kW	m.w.	Name	h. of tr.
1)	A5	5985	50.13	3	900	R. Encarnacion:	14.00–18.00 22.00–04.00
2)	A10	6025	49.79	1	1300	R. Paraguay:	12.00–17.00
3)	A6	9735	30.82	3	1330	R. Guairá:	13.00–04.00
4)	A3	11850	25.32	1.5	1430	R. Teleco:	19.00–04.00
5)	A1	11945	25.12	50	920	R. Nacional:	under construction
6)	A7	15210	19.72	1	730	R. Guarani:	14.00–02.00

Medium Waves: °) Short Waves.

Call	kc/s	kW	Call	kc/s	kW	Call	kc/s	kW
*)	700	10	7) 9	910	1.5	3) 6	°1330	0.5
6) 7	°730	1.5	8) 11	1200	1.5	4) 3	°1430	3
1) 5	°900	3	2) 10	°1300	1.5	9) 8	1480	0.5
5) 1	°920	10	*) under construction.					

Short Waves:

1) Encarnacion. – **L.P.**: Dir. Gen.: J. M. C. Damus. – **D. Prgr.**: ZP5: 11.00–03.00.
2) Av. Dr. Gaspar R. de Francia 115, Asuncion. – **L.P.**: Dir. Gen.: G. H. Mora. Dir. Tec.: P. Pereira. **D. Prgr.**: ZP10: 11.00–03.00. – **V.** by QSL-card R.p.
3) Villarrica. – **L.P.**: Dir. & Owner, Dir. Tec.: E. T. Vazques. **D. Prgr.**: ZP6: 13.30–16.30, 21.45–01.00.
4) Av. Gral Artigas y Bañado, Asuncion. – **L.P.**: Dir. Gen.: J. A. Recalde. Dir. Tec.: J. Bycok. **D. Prgr.**: ZP3: 00.00–03.00. **V.** by QSL-card.
5) Cnel. Martinez 224, Asuncion. – **L.P.**: Dir. Gen.: A. C. Almada. Dir. Tec.: P. Pereira. – **D. Prgr.**: ZP1: 12.00–18.00, 21.00–03.00. (ZPA1 will operate 11.00–04.00, when ready). – **V.** by QSL-card.
6) Independencia Nacional 703, Asuncion. – **L.P.**: Dir. & Owner: C. M. Saccarello. Dir. Prgr.: M. A. Rodriguez. – **D. Prgr.**: ZP7: 10.00–03.00. – **V.** by letter.

Medium Waves:

7) **R. Comuneros**, Estados Unidos y 19 a, Asuncion. – **D. Prgr.**: 09.00–03.00.
8) **R. Comuneros**, L. A. de Herrera 124–140, Asuncion. – **D. Prgr.**: 11.00–18.00, 20.00–03.00.
9) **R. Ypir**, Concepción. – **D. Prgr.**: 11.00–17.00, 21.30–02.00.

★ PERU ★

L.T.: GMT÷5 h. – **L.:** Spanish. – **Rcvrs.:** 600.000.
All stations commercial exc. R. Nacional & R. Mundial (Go.)

NATIONAL ASSOCIATIONS OF BROADCASTING STATIONS IN PERU

ADDR.: A cargo de "Radio Victoria", Bajos de la Cabaña, Paseo de la Republica, Lima
Short Waves: *)=inactive.

	Call	kc/s	m	kW	m.w.	Station	h. of tr.
1)	OBX4V	3240	92.59	0.5	1010	R. America	13.00–15.00 (Sat. 06.00)
2)	OAX6E	3290	91.19	0.3	1370	R. Continental[6])	
3)	OBX4Y	3300	90.91	0.35	1370	R. Junin	
4)	OAX1M	3330	90.09	0.5	890	R. Progreso	
5)	OAX5J	3350	89.55	0.3	730	R. Independencia	
6)	OAX2G	4770	62.89	0.3	1370	R. Cajamarca	
7)	OCX4B	4860	61.73	0.3	1400	R. El Pueblo	
8)	OCX4E	4880	61.48	0.75	1160	R. Difusora 1160	
9)	OAX50	5010	59.88	1	620	R. Pisco	
10)	OAX4P	5955	50.38	0.25		R. Huancayo[7])	
11)	OAX7L	5960	50.34	1 d	1030	La Voz del Altiplano	22.00–05.00
12)	OBX4Q	5970	50.21	10	900	R. El Sol	12.00–05.00
13)	OBX4M	5980	50.17	0.5	960	R. Panamericana	
1)	OAX4V	5995	50.04	0.5	1010	R. America 13.00–05.00	(Sat. 06.00)
14)	OAX4Q	6020	49.83	1	780	R. Victoria	12.30–05.00 (Sat 06 00)
15)	OAX6B	6035	49.71	0.15	1400	R. Landa	13.00–05.00
16)	OAX6A	6042	49.65	0.25		R. Arequipa	23.00–04.00
17)	OAX2A	6057	49.53	0.25	1400	R. Trujillo	23.00–04.30
18)	OAX4S	6070	49.42	0.3	1030	R. San Cristobal	11.15–05.00
19)	OAX4Z	6082	49.33	10d	**)	R. Nacional, Lima	12.00–05.00
20)	OAX4H	6095	49.22	1	1080	R. Mundial	12.30–05.00
21)	OBX4Z	6115	49.06	1	590	R. Luz	
22)	OAX7A	6128	48.96	0.1	1470	R. Cuzco	23.00–04.00
23)	OAX1A	6150	48.78	0.25	1520	R. Delcar[4])	23.00–04.00
24)	OBX4G	6153	48.74	0.5	1360	R. Excelsior	12.00–05.00
25)	OCX4G	6160	48.70	1	1580	R. Mundo	
26)	OAX7C	6175	48.58	0.3	1200	R. Tahuantisuyo	
27)	OBX4P	6180	48.54	0.3	1250	R. Miraflores	13.00–05.00
28)	OAX4G	6190	48.47	0.25	1200	R. Lima	12.00–05.00
29)	OAX1B	6198	48.40	0.3		R. Piura	12.00–04.30
1)	OAX4W	9412	31.88	0.5	1010	R. America[3])	as 3240
30)	OAX6H	9505	31.56	0.1		R. Tacna[5])	12.00–04.00
31)	OAX4J	9520	31.51	0.25	1320	R. La Cronica[1])	12.00–05.00
19)	OAX6G	9530	31.48	0.3	1250	R. Nacional, Tacna[2])	22.00–05.00
32)	OAX4K	9545	31.43	0.3	930	R. Central	
19)	OAX4R	9562	31.37	50d	**)	R. Nacional, Lima	12.00–05.00
33)	OBX4K	9585	31.30	0.3	1130	R. Selecta	
34)	OAX8F	9590	31.28	0.2	1380	R. Loreto	12.00–05.00
19)	OAX8C	9610	31.22	0.3	1030	R. Nacional, Iquitos	23.00–04.00
35)	OAX8K	9625	31.17	1	1490	R. Atlantida	11.00–05.00
19)*	OBX4R	11914	25.18	40	**)	R. Nacional, Lima	
19)	OAX4T	15150	19.80	50d	**)	R. Nacional, Lima	12.00–05.00
12)	OBX4C	15180	19.76	1	900	R. El Sol	12.00–02.00
19)*	OBX4T	21600	13.89	40	**)	R. Nacional, Lima	
12)	FM: OBX4F	90.1 mc/s			900	R. El Sol	12.00–05.00

**) 854/1120 kc/s.
1) reported on 9343 kc/s. [2]) reported on 9375 kc/s. [3]) reported on 9455 kc/s. [4]) reported on 6700 kc/s. [5]) reported on 9492 kc/s. [6]) also reported on 9355 kc/s. [7]) reported on 5750 kc/s.

Medium Waves: °)=Short Waves.

	Call	kc/s	kW		Call	kc/s	kW
21)	OBX4L	° 590	10	20)	OAX4F	°1080	0.25
9)	OAX5P	° 620	1	19)	OBX4A	°1120	15
5)	OAX5E	° 730	1	33)	OAX4N	°1130	0.35
36)	OBX4S	730	1	40)	OAX7H	1130	0.5
37)	OAX1Y	750	0.25	8)	OAX4C	°1160	0.75
14)	OAX4X	° 780	10	41)	OAX2C	1160	0.3
38)	OAX40	820	0.25	42)	OAX3B	1160	0.5
39)	OAX2J	820	1	26)	OAX7B	°1200	0.3
19)	OAX4A	° 854	20	28)	OAX–B	°1200	1
4)	OAX1D	° 890	0.5	27)	OAX4L	°1250	1.5
12)	OBX4X	° 900	10	19)	OAX6D	°1250	1
32)	OAX4E	° 930	0.75	43)	OAX4M	1300	1.5
13)	OAX4D	° 960	5	31)	OAX4I	°1320	10
1)	OAX4U	°1010	10	44)	OAX5D	1340	0.3
18)	OBX40	°1030	1.5	45)	OAX1E	1340	1
19)	OAX8A	°1030	1	24)	OAX4Y	°1360	1.5
11)	OAX7N	°1030	0.5	2)	OAX6C	°1370	0.25
6)	OAX2D	°1370	0.5	22)	OAX7G	°1470	0.15
3)	OBX4V	°1370	0.5	35)	OAX8J	°1490	1
34)	OAX8D	°1380	0.2	48)	OCX4J	1510	0.1
7)	OBX4W	°1400	0.3	49)	OBX4D	1520	0.5
17)	OAX2B	°1400	0.25	23)	OAX1C	°1520	0.15
15)	OAX6J	°1400	0.3	50)	OAX8D	1520	0.5
46)	OAX3C	1460	0.5	51)	OBX4N	1540	0.3
47)	OBX4E	1470	0.3	25)	OCX4F	°1580	1

Short Waves:
1) Cia. Peruana, Jirón Ocoña, 476, Lima. **ANN.:** "La Voz del Nuevo Mundo, desde Lima."
2) 3° Piso Teatro Municipal, Arequipa. – **L.P.:** Dir.: J. A. Umbert F. – **ANN.:** "Emisoras de R. Continental desde Arequipa."
3) Huancayo.
4) Calle de Huanuco 484–470, Piura.
5) Calle Chiclayo 268, Ica.
6) Cadena Nacional S.A., Cajamarca.
7) Bajos ex "La Cabaña", Lima. – **L.P.:** Dir.: L. Y. Duarte.
8) Casilla 2355, Lima. – Dir. C. Pérez F.
9) Pisco, or Huayna Capac 1345, Lima.
10) Av. Giraldez 368, Huancayo. – **L.P.:** Dir. Gen.: A. Elejalde G.
11) Calle Lima No. 700, Puno. – **L.P.:** Dir. Gen.: J. Z. Gonzales. Dir. Tec.: R. Lazo V – **N.:** 23.00, 24.00, 02.30. – **Wrp.:** 02.30, Sun. 23.00. **Nat. Music:** 22.30, 02.00, Sat. 04.00. – **Mbg.** 04.00 (Fri.), 02.00 Mo., Sun.). – **Prgr. to Argentina, Bolivia, Chile:** Fri. 04.00–05.00 on 5960 kc/s. – **INT.-SIG.:** Home Sce.: "Cerrito de Huacsapata". Foreign Sce.: "Swedish Rhapsody". – **V.** by QSL-card.
12) Pasaje Velarde no. 106, Lima.
13) Unión 1042, Lima.
14) Emp. Radiodif. "Victoria", Bajos "Cabaña", Lima.
15) Sucre No. 409, Arequipa. – **V.** by QSL-card.
16) Palacio Viejo No. 106, Arequipa.
17) Almagro No. 349, Trujillo. – **L.P.:** Dir.: J. D. Montoya. – **ANN.:** "La Voz del Norte del Peru."
18) Jirón Huallaga No. 515, Lima. – **L.P.:** Dir.: J. D. Montoya. – **ANN.:** "Estas son las Emisoras de R. San Cristobal, desde Lima, Peru". **E.:** "This is the San Cristobal Radio in Lima, Peru." – **INT.-SIG.:** The first bars of "My Concerto" by Camarata. – **V.** by QSL-card. –
19) Av. P. Thouars No. 441, Lima. OAX8A / OAX8C: Iquitos. OAX6D/OAX6G: Tacna. – **L.P.:** Dir. Gen.: Dr. J. V. Prada. Vice Dir.: G. Lazarte. Dir. Prgr.: L. Pacheco. Dir. of Branch St.: L. E. Pujalt. Dir. Tec.: Eng. J. V. Escalante. – **N.:** 12.00 and from 14.00–01.00 every h. on the h., 02.30, 03.00, 04.00, 04.55. – **ANN.:** "Radio Nacional del Peru, la primera emisora del pais." – **V.** by QSL-card.
20) Jirón de la Unión 733, Lima.
21) Av. Tacna 545, 7° Piso, Lima.
22) Sappi 601, Cuzco. – **V.** by QSL-card.
23) Casilla 9, Chiclayo. – **L.P.:** Dir.: J. C. Montjoy D. – **V.** by letter
24) Comp. Radiodif. Excelsior, Lima.
25) Av. Giraldez 390, Huancayo. – **L.P.:** Dir.: M. H. Gálvez.
26) Portal Comercio 165, Cuzco. – **L.P.:** Dir.: R. M. Espejo.
27) Av. Larco No 760, Miraflores.
28) Av. Nicolas de Pierola No. 462, Lima.
29) Casilla 149, Piura. – **L.P.:** Dir. J. C. Montjoy. **V.** by letter.
30) Aniceto Ibarra 436, Tacna. – **V.** by letter.
31) Av. Tacna No. 655, Lima.
32) Jirón Union 1038, Lima. – **ANN.:** "R. C. la emisora mas popular."
33) Colmena Izquierda No. 214, Lima. – **L.P.:** Dir.: J. C. Andrade.
34) Apt. 555, Iquitos.
35) Arica No. 76, Iquitos. – **L.P.:** Dir.: Dr. J. R. Burga. – **V.** by letter

Medium Waves:
36) **R. Sport,** Av. Ohiggins No. 156, Lima.
37) **R. Piura,** Piura or Saénz Peña 392, Chiclayo.
38) **R. Libertad,** Jirón Unión No. 1038, Lima.
39) **R. Pizarro,** Pizarro No. 525, Trujillo.
40) **R. Puno,** Puno.
41) **R. Libertad,** B. 437, Trujillo. – **D. Prgr.:** 12.00–04.00. – **V.** by letter.
42) **R. Huaraz,** Huaraz.
43) **R. Atalaya,** Av. Abancay 235, 3° piso, Lima.
44) **R. Chincha,** Los Angeles 328, Chincha.
45) **R. Chiclayo,** Chiclayo.
46) **R. Huanuco,** Huanuco.
47) **R. Inca,** Huancavelica No. 895, Lima.
48) **R. Tarma,** Huaráz 198, Tarma. – **L.P.:** Dir.: N. Monteverde.
49) **R. Reloj,** Colmena Derecha, Edificio Castillo, Lima.
50) **R. Iquitos,** R. Loreto S.A., Iquitos.
51) **R. Corporacion,** Jirón Lima 169, Cerro de Pasco.

★ SURINAM (Dutch Guiana) ★

L.T.: GMT÷3⅔ h. – **L.:** Dutch, English, Hindustani, Javanese.
Rcvrs.: 11.000

ALGEMEENE VEREENIGING RADIO OMROEP (Comm.)

ADDR.: A.V.R.O.S., Cultuurtuinlaan, P.O. Box 720. Paramaribo

HOME SCE:
PZH5 920 kc/s 328 m 0.35 kW. – PZC 15460 kc/s 19.40 m 1 kW 4850 kc/s 61.86 m 0.35 kW. – **Dutch:** On 920/4850 kc/s: 09.30–11.30, 13.00–16.30. On 920/15405 kc/s: 19.00–01.30.
FOREIGN SCE. in Dutch, E., Sp.: 15460 kc/s: 21.30–01.30 to Caribbean. – **ANN.: Sp.:** "Esta es Radio Surinam, la AVROS, en Paramaribo, capital de Surinam, uno de sus vecinos en la America del Sur". – **V.** by letter.

★ URUGUAY ★

L.T.: GMT÷3 h. – **L.:** Spanish. – **Rcvrs.:** 700.000.
ASOCIACION NACIONAL DE BROADCASTERS URUGUAYOS (A.N.D.E.B.U.)
ADDR.: Uruguay 1218, Montevideo. – **L.P.:** Pres.: Luis A. Artola. Secretary: Raul Beisso Corchs.
STATIONS: Short waves: Calls: CX––– St. 3), 5), 10), 13), 46) Go. Other priv. comm. *) inactive

	Call	kc/s	m	kW	m.w.	Name and h. of tr.
1)	A2	6000	50.00	5	1170	R. Sur 10.00–03.00
2)	A30	6035	49.71	1	1130	R. Nacional 15.00–03.00
3)	A14	6055	49.55	5		Serv. de Inf. y Prensa 13.00–16.00
4)	A3	6075	49.38	2.5	730	R. Ariel 10.00–03.00
5)	A4	6125	48.98	10	**	S.O.D.R.E. 13.00–03.10
6)	A5	6140	48.86			R. CXA5 10.00–03.00
6a)	A20	6140	48.86	10	930	R. Monte Carlo, under constr.
7)	A13	6155	48.74	10	850	R. Carve 14.00–18.00, 22.00–03.00
8)	A21	6170	48.62	1	1330	R. Fenix 14.00–16.00, 21.00–01.00
9)	A71	9515	31.53	10	690	R. Sarandí
6a)	A72	9595	31.27	10	930	R. Monte Carlo, under constr.
5)	A6	9620	31.19	20	**	S.O.D.R.E. 12.00–03.10
10)	A8	9640	31.12	3		R. Real de S. Carlos 15.00–17.00, 20.00–01.00
11)	A7	11735	25.56	5	770	R. Oriental: 11.00–15.00, 20.00–02.00
12)	A19	11835	25.35	5	810	El Espectador 10.55–03.00
9)	A68*	11885	25.24	10	690	R. Sarandí
5)	A10	11900	25.21	20	**	S.O.D.R.E. 22.30–03.10
5)	A55	11965	25.07	10	**	S.O.D.R.E. 03.00–05.00
13)	A64	15225	19.70	25		Serv. de Transm. 01.00–03.00
9)	A60	15385	19.50	10	690	R. Sarandí 20.30–02.00
13)	A57	17715	16.93	10		Serv. de Transm. 14.00–17.00
13)	A54	17895	16.76	25		Serv. de Transm. 23.00–01.00
13)	A65	25855	11.61	10		Serv. de Transm. 12.00–22.00

** 650/1050/1290 kc/s.
Medium Waves: °) Short Waves.

	Call	kc/s	kW		Call	kc/s	kW		Call	kc/s	kW
14)	CW1	550	4.5	2)	CX30	°1130	5	34)	CW25	1430	1
15)	CX4	610	5	1)	CX32	°1170	10/5	3)	CX46	1450	1.5
5)	CX6	°650	50	22)	CW33	1200	0.25	35)	CW46	1460	0.25
16)	CW27	680	1	23)	CX34	1210	2.5	36)	CW46b	1460	0.03
9)	CX8	°690	10/5	24)	CW35	1240	2	37)	CW47	1470	0.3
4)	CX10	°730	5	25)	CX36	1250	3/1	38)	CW43b	1480	1
11)	CX12	°770	25	12)	CW37	1260	1	39)	CX48	1490	5
12)	CX14	°810	15	5)	CX38	°1290	20	40)	CW47a	1510	0.1
17)	CW23	820	1	26)	CW39	1320	0.5	41)	CW47b	1510	0.1
7)	CX16	°850	50	8)	CX40	°1330	1	42)	CX50	1530	0.3
12)	CX18	890	10/5	27)	CW53	1340	2.5	43)	CW50	1550	0.25
6a)	CX20	°930	5	28)	CW41	1360	0.5	44)	CW51	1560	0.5
19)	CX22	970	1	29)	CX42	1370	1	45)	CW52	1570	0.15
7)	CX24	1010	2.5	30)	CW45	1390	0.25	46)	CW19	1580	0.25
5)	CX26	°1050	20	31)	CW46a	1400	10	47)	CW54	1580	0.25
20)	CX28	1090	10	32)	CX44	1410	5	18)	CW56	1600	0.25
21)	CW31	1120	2	33)	CW43	1420	0.5				

Short Waves:
1) Comp. Urug. de Publicidad, Yi 1383, Montevideo. – **ANN.:** "Sras i Sra tengan Uds. muy buenos dias CX32, R. Sur, Uruguay y su emisora en onda corta CXA2".
2) O.R.O., S.A. Plaza Independencia 846 1° piso, Palacio Salvo, Montevideo. – **D.Prgr.:** CX30: 11.00–03.00. CX46 **R. America:** 13.00–17.00, 19.00–01.00. – **V.** by QSL-card.
3) Ministerio de Ganaderia y Agricultura, 25 de Mayo 385, Montevideo. (Servicio de Informacion y Prensa).
4) 18 de Julio 1460, Montevideo. – **ANN.:** "Difusoras Ariel, por intermedio de sus ondas – – –". – **V.** by QSL-card.
5) Mercedes 823, Montevideo. – **Cable:** SODRE. – **D.Prgr.:** CX6/CX26: 12.00–03.10. CX38: 21.00–03.00. – **ANN.:** "Servicio Oficial de Difusion Radio Electrica Montevideo con sus emisoras..." – **INT-SIG.:** First movements of "Campo". – **V.** by QSL-card.
6) San José 808, Montevideo.
6a) **R. Monte Carlo,** 18 de Julio 1224, Montevideo. – **L.P.:** Dir. Cen.: H. Romay-Salvo, Dir. Tec.: I. Beltrami. – **D.Prgr.:** 10.00–03.00.
7) Mercedes 973, Montevideo. – **Cable:** SADRED. – **L.P.:** Dir. Gen.: R. Fontaina. Dir. Tec.: J. A. Gatti. – **D.Prgr.:** CX16: 10.30–03.00 – **N.:** Every hour on the hour. & 02.30. – **Commentary:** Fri. 01.07, Sun. 16.00. – **Wrp.:** 13.00, 15.00, 16.00, 20.00, 22.00, 24.00 and after **N.** – **V.** by QSL-card.
8) Rio Branco, 1366, Montevideo. – **L.P.:** Dir.: Julio J. Rabassa. – **D.Prgr.:** CX40: 10.00–05.00 (Sat. 06.00).
9) Corporación de Publicidad S.A., San José 808, Montevideo. – **D.Prgr.:** CXA60: **To Europe:** Tues.-Fri.: 20.30–21.30 (Tues. in **German,** other days in **English**). – **To N. America: English:** Tues. 01.00–02.00. CX8: 10.45–03.00. – **ANN.:** E. "This is Montevideo, Uruguay, Calling the world". – **V.** by letter.
10) Gral Flores 30, Colonia.
11) Olimar 1364, Montevideo. – **L.P.:** Dir. L. A. Artola. – **D.Prgr.:** CX12: 11.00 (Sun. 12.00)–02.00.
12) Difusoras del Uruguay S.A., 18 de Julio 1393, Montevideo. – **D.Prgr.:** CX14: 09.58–03.00; CX18 **R. Libertad Sport:** 10.50–03.00; CW37 **Difusora Rochense,** Dr. Julian Grana 119, Rocha: 11.00–01.00 (Sat. & Sun. 03.00). – 13) Servicio de Transmisiones, Montevideo.

Medium Waves:
14) **R. Popular,** A Mendez 164, Colonia. – **D.Prgr.:** 09.45–05.00 (Fri. 06.00, Sat. 09.00) **German:** D. 23.45–00.30 (rel. from CW47).
15) **R. Rural,** Diario Rural S.A., 18 de Julio 1513, Montevideo. – **D.Prgr.:** 09.58–03.00 (Sun. 06.00).
16) **R Tabaré,** Uruguay 678, Salto. – **D.Prgr.:** 10.00–03.00.
17) **R. Cultural,** Lavalleja 42–48, Salto. – **D.Prgr.:** 10.00 (Sun. 10.30).
18) **Difusora Soriano,** Florida 568, Mercedes – **D. Prgr.:** 11.00–02.00.
19) **R. Universal,** Soriano 1217, Montevideo. – **L.P:** O.: H. Hnos. – **D.Prgr.:** 10.00–03.00 (Sat. 05.00).
20) **R. Imparcial,** Av. Agraciada 1708, Montevideo. – **L.P.:** Adm. Dir. Tec.: W. F. Moran. – **D.Prgr.:** 24 h – **V.** by QSL-card.
21) **R. Salto,** Brazil, esq. Amorin, Salto. – **D.Prgr.:** 11.00–03.00.
22) **Difusora Florida,** Gallinal 696, Florida. – **D.Prgr.:** 13.00 (Sun. 12.30)–01.00.
23) **R. Artigas,** Av. Millan 2370, Montevideo. – **D.Prgr.:** 12.30–02.30.
24) **Paysandu Broadcasting,** 18 de Julio 1044, Paysandu.
25) **Broadcasting Centenario del Uruguay,** Olimar 1364, Montevideo. –
26) **La Voz de Paysandu,** 18 de Julio 614, Paysandu.
27) **La Voz de Melo,** Montevideo 721, Melo. – **D.Prgr.:** 11.00–03.00.
28) **Broadcasting San José,** Treinta y Tres 890, San José. – **D.Prgr.:** 13.00–02.00.
29) **R. del Pueblo,** Mercedes 1805, Montevideo. – **L.P.:** O.: H. Vernazza. – **D. Prgr.:** 11.15–03.00.
30) **Difusora Treinta y Tres,** Zufriategui 230, Treinta y Tres – **D.Prgr.** 10.50–03.00
31) **Dif. Zorilla de San Martin,** 18 Julio 310, Tacuarembó. – **L.P.:** Dir.: L.S. Dini. Dir. Tec.: J. Alvez. – **D.Prgr.:** 10.00–02.00. –**N.:** 11.55, 12.55, 15.00, 16.00, 22.00, 23.00, 00.15. – **Mbg.:** 18.00, 23.05. – **Wrp.:** 16.05. – **V.** by QSL-card.
32) **R. Solis,** 18 de Julio 965, 20 piso, Montevideo. – **L.P.:** Dir.: C.M.U. Braga. – **D.Prgr.:** 11.55 (Sun. 11.25)–02.00.
33) **R. Lavalleja,** José E. Rodó 530, Minas. – **L.P.:** J. R. Volante. – **D.Prgr.:** 12.55–02.00.
34) **R. Durazno,** 18 de Julio 592, Durazno. – **D.Prgr.:** 14.00–00.30.
35) **Licio de Dolores,** Dolores Soriano. – **D.Prgr.:** irregular.
36) **Licio de San Carlos,** San Carlos, Maldonado. – **D.Prgr.:** 21.00–24.00 (Sun. 10.00–13.00.)
37) **R. Montevideo,** Rio Branco 1366, Montevideo. – **L.P.:** Dir.: J. J. Rabassa – **D.Prgr.:** 11 30–16.00, 18.00–03.00. **German:** 23.45–00.30. (rel. by CW1 for Buenos Aires).
38) **R. Internacional,** Sarandi 792, Rivera. – **L.P.:** Dir.: W. F. Morán. – **D.Prgr.:** 10.30–02.00 (Sat. 05.00). – **V.** by QSL-card.
39) **R. Fémenina,** 18 de Julio 1333, 2° piso, Montevideo.
40) **R. Welcome,** 25 de Mayo 637, San José. – **D.Prgr.:** 16.05–18.00, 23.15–03.00.
41) **R. Berna,** Artigas 629, S. José. – **D.Prgr.:** 10.00–16.00, 18.00–23.30.
42) **R. Independencia,** Paysandu 1186, Montevideo: 11.00–03.00.
43) **R. Carmelo,** 19 de Abril 444, Carmelo. –
44) **R. Maldonado,** Sarandi 1043, Isla de Gorriti 819 (or 18 de Julio 1561, Montevideo). – **L.P.:** Dir.: H. Lamaison. – **D.Prgr.:** 12.00–02.00.
45) **R. Litoral,** España 1157, Fray Bentos. – **D.Prgr.:** 12.00–02.00.
46) **R. Charrua,** Ituzaingo 574, Rivera. – **D.Prgr.:** 10.30–17.00, 20.00–00.30.
47) **Emisora del Este,** Domingo Perez 491, Minas. –

★ VENEZUELA ★

L.T.: GMT÷4½ h. – **L.:** Spanish. – **Rcvrs.:** 230.000.
All stations comm. exc. YVKO (Co.) and YVMI (Rel.)
MINISTERIO DE COMUNICACIONES, DIRECCION DE TELECOMUNICACIONES, DIVISION INTERNACIONAL Y TECNICA, CARACAS.
Camara Venezolana de la Industria de la Radio y Television, Apt. de Correos 3155. – Cable: Camrado, Caracas.
STATIONS: Short Waves. Calls: YV – – – *) inactive

	Call	kc/s	m	kW	m.w.	Name	h. of tr.
1)	QQ	2360	127.1	1	670	R. Carupano	10.30–03.30
2)	LG	2440	122.9	1	660	R. Girardot	10.30–02.30

Venezuela

	Call	kc/s	m	kW	m.w.	Name	h. of tr.
3)	NI	2470	121.5	1	1140	R. Carora	10.30–02.30
4)	KT	3245	92.45	1	880	R. Libertador	10.30–04.30
5)	QL	3255	92.17	0.5	1010	La Voz del Tigre	11.30–03.30
6)	OC	3265	91.87	1	780	Ecos del Torbes	10.30–03.30
7)	MC	3275	91.60	1	1150	R. Mara	10.30–03.30
8)	OG	3295	91.10	0.7		R. Trujillo	11.00–02.30
9)	KX	3305	90.77	3	710	La Voz de la Patria	10.30–03.30
10)	LI	3315	90.50	1	930	R. Maracay	11.30–03.30
11)	RA	3325	90.22	0.6		R. Monagas	11.30–03.30
12)	QC	3335	89.95	1	1030	Ecos del Oriñoco	10.25–02.30
13)	KP	3345	89.68	2	1160	R. Tropical	10.30–03.30
14)	LC	3355	89.41	1	850	R. Valencia	10.30–03.30
15)	MI	3375	88.89	0.6	1400	La Voz de la Fé	11.30–02.30
16)	QI	3385	88.63	1	1080	Emisoras Unidas	11.30–03.30
17)	LE	3385	88.63	1	1290	R. Puerto Cabello	10.30–02.30
18)	OJ	3395	88.37	1	1450	R. Universidad	11.30–03.30
19)	MK	3410	87.95	1	1180	R. Cabimas	10.30–03.30
20)	KV	4760	63.03	0.5	1070	Emisora Vargas	10.30–03.30
21)	NW	4770	62.89	0.3	1460	Ondas del Caribe	11.30–03.30
22)	LA	4780	62.76	1	690	La Voz de Carabobo	10.30–03.30
23)	QN	4790	62.63	5	650	Ondas Porteñas	10.00–03.30
24)	ME	4800	62.50	7.5	1120	Ondas del Lago	10.30–03.15
25)	NG	4810	62.37	1	700	R. Popular	10.30–03.30
26)	RC	4820	62.24	1		La Voz de Apure	11.30–02.30
27)	OA	4830	62.11	5	1000	La Voz del Tachira	10.30–03.30
28)	OI	4840	61.98	1	1230	R. Valera	11.30–03.30
29)	NS	4850	61.86	1	1090	R. Universo	10.30–03.30
30)	PA	4860	61.73	1		R. Yaracuy	10.30–03.30
31)	KF	4880	61.48	7.5	950	Ondas Populares	10.30–03.30
32)	KB	4890	61.35	5	790	R.dif. Venezuela	10.30–04.30
33)	QE	4900	61.22	1	720	R. Bolivar	10.30–03.30
34)	KR	4920	60.99	7.5	750	R. Caracas	10.30–05.30
35)	MO	4940	60.73	2	1280	R.dif. Occidental	10.30–03.30
36)	MM	4950	60.60	1	1210	R. Coro	10.30–03.30
37)	QA	4960	60.48	1	1220	R. Sucre	10.30–03.30
38)	LK	4970	60.36	10	1020	R. Rumbos	10.30–05.30
39)	MQ	4990	60.12	15	680	R. Barquisimeto	10.30–03.30
40)	KO	5020	59.76	3	630	R.dif. Nacional	15.00–03.30
41)	KM	5030	59.64	10	590	R. Continente	10.30–04.30
42)	MA	5040	59.55	2.5	800	Ecos del Zulia	10.30–04.30
43)	KD	5050	59.41	5	1000	R. Cultura	10.30–03.30
40)	KO	6170	48.62	3	630	R.dif. Nacional	inactive
39)	XJ	9505	31.56	15	680	R. Barquisimeto	10.30–03.30
**)	MZ	9530	31.48	1	} Various tr.		10.30–03.30
***)	OM	9570	31.35	1	} Various tr.		10.30–03.30
40)	SC	9640	31.12	3	630	R.dif. Nacional	inactive

) common freq. for 25), 42), 52). *) common freq. for 6), 27).

Medium Waves: Call: YV – – °) Short wave.

	Call	kc/s	kW		Call	kc/s	kW		Call	kc/s	kW
38)	LX	560	10	48)	QX	920	1	14)	KQ	°1160	1
41)	KL	°590	20	10)	LJ	°930	1	56)	QV	1170	2
40)	KA	°630	10	31)	KG	°950	5	19)	ML	°1180	1
23)	QO	°650	10	49)	QQ	960	0.25	57)	RE	1190	0.25
2)	LH	°660	1	50)	ND	970	5	36)	MN	°1210	1
1)	QT	°670	0.25	51)	LR	990	1	37)	QB	°1220	0.25
39)	MR	°680	2	27)	OB	°1000	10	28)	OH	°1230	0.25
22)	LB	°690	1	5)	MQ	°1010	0.5	58)	OL	1240	2
25)	MH	°700	10	38)	LL	°1020	1	59)	LQ	1240	1
10)	KY	°710	1	52)	MX	1030	0.3	60)	KH	1280	1
33)	QF	°720	1	12)	QC	°1030	1	35)	MD	°1280	2
34)	KS	°750	10	53)	LN	1060	0.3	18)	LF	°1290	1
44)	LP	770	1	20)	KW	°1070	1	61)	QY	1310	0.6
6)	OD	°780	10	54)	NG	1070	1	62)	QE	1320	1
32)	KC	°790	5	16)	QI	°1080	0.25	63)	QU	1340	0.1
42)	MB	°800	25	29)	LT	°1090	10	64)	WH	1350	0.5
45)	LT	830		43)	KE	°1100	5	65)	LO	1370	1
46)	MY	840	1	24)	MF	°1120	10	66)	QZ	1390	0.2
14)	LD	°850	10	55)	NA	1130	0.3	15)	MJ	°1400	0.6
4)	KU	°880	1	3)	MU	°1140		17)	OJ	°1450	1
47)	LW	890	1	7)	MD	°1150	1	21)	MB	°1460	1

St. 5, 51, 52, 56, 58 belong to 41: Circuito R. Continente.

FM: mc/s	kW		mc/s	kW		mc/s	kW		mc/s	kW
3) 31.50	0.25	18)	90.50	0.05	60)	167.18	0.01	27)	168.40	0.05
42) 43.77	0.1	31)	92.00	0.25	10)	167.42	0.05	27)	168.90	0.05
50) 47.44	0.03	5)	96.00	0.05	45)	167.48	0.05	40)	169.70	0.05
38) 49.54	0.06	39)	98.00	0.25	32)	167.80	0.05	38)	170.18	0.25
47) 72.66	0.05	43)	100.00	0.1	40)	168.02	0.05	6)	161.67	0.05
13) 74.02	0.05	34)	153.32	0.05	22)	168.02	0.05	38)	171.67	0.05
55) 90.10	0.01	38)	161.55	0.15						

Short Waves:

1) Carupano. – **L.P.:** Dir. R. Arreaza A.
2) C. A. Radio Girardot, Maracay.
3) Carora. – **L.P.:** Dir. C. J. Gonzales.
4) Provenca Propagandistas Venezoelanos, Caracas. – **English:** W. 11.30–13.00. (N. 11.50), 22.30–24.00 (N. 23.10). – **V.** by letter.
5) El Tigre. – **L.P.:** Dir. C. Poleo.
6) Calle 9–55, Apt. 152, S. Cristobal. – **L.P.:** Dir. G. Lovera.
7) Apt. 100, Maracaibo. – **L.P.:** Dir. L. Govea.
8) Calle Independencia 200, Trujillo. – **L.P.:** Dir. P. Torres.
9) C. A. La Voz de la Patria, Caracas. – **V.** by letter.
10) Maracay. – **L.P.:** Owners: Armezzano y Vasquez.
11) Apt 14, Maturin. – **L.P.:** Dir. L. J. A. Almenar. – **V.** by letter.
12) Apartado 47, Ci. Bolivar. – **L.P.:** Dir. E. J. Ballorin A. – **N.:** 16.00, 16.30, 19.00. – **V.** by letter.
13) San Jacinto 9, Caracas. – **D.Prgr.: French:** Tues., Sat. 01.30–02.15, Sun. 01 30–01.40. **Portuguese:** 23.00–23.30. **Italian:** 00.00–00.30. – **V.** by QSL-card.
14) Valencia. – **L.P.:** Dir. M. Ache.
15) Maracaibo. – **L.P.:** Dir. P. A. Bermidez V.
16) Apt. 27, Barcelona. – **L.P.:** Dir. A. Arreaza A.
17) Apt. 4, Puerto Cabello. – **Cable:** Radiobello. – **L.P.:** Dir. Gen.: S. G. Villalba. Dir. Adm.: S. S. Gonzalez. Dir. For. Rel. R. Betancourt.
18) Apt. 74, Merida. – **L.P.:** Dir. E. O. Dubuc.
19) Calle Democracia, Cabimas. – **V.** by letter.
20) La Guaira. – **L.P.:** Dir. P. S. Guzman.
21) Punto Fijo. – **L.P.:** Dir. R. Leiva.
22) C. A. La Voz de Carabobo, Valencia. – **V.** by letter.
23) Apt 4123, Puerto la Cruz. – **L.P.:** Dir. A. J. Isturiz. Dir. Inf.: R. B. Malaver. – **D.Prgr.:** N. 11.15, 16.30, 22.30, 23.45. – **V.** by letter.
24) Apt. 261, Maracaibo. – **Cable:** Lagonda. – **L.P.:** Pres. & O.: N. V. Quintero. Dir. Tec.: Eng. I. Salcido, A. Prieto. For Rel.: Dr. M. Piedra. – **D.Prgr.:** N. 10.35 (National N.), 12.00, 17.00, 22.30, 23.30, 02.30. **Nat. music:** 12.45, 19.30, 23.35. **Prgrs. in Italian:** Mo. 00.30–01.00. – **V.** by QSL-card. R. p.
25) Apt. 347, Maracaibo. – **L.P.:** Dir. J. H. Miranda. – **English:** D. 10.45 (or 10.30)–11.00, Sun. 12.00–13.00. **V.** by QSL-card/letter.
26) Apt. 14, San Fernando de Apure. – **L.P.:** Dir.: R. Cestari.
27) Apt. 37, San Cristobal. – **L.P.:** Dir.: J. M. Diaz Gonzalez. – **D. Prgr.: N.:** 11.30, 17.00, 22.30. – **V.** by letter.
28) Calle Bolivar 54, Valera. – **L.P.:** Dir.: J. L. F. Gelambi.
29) Apt. 76, Barquisimeto. – **V.** by letter.
30) C. A. Radio Yaracuy, San Felipe.
31) Edificio Radio Centro, Apt. 587, Caracas. – **L.P.:** Dir. Gen.: F. Cardona. Dir. Tec.: R. Girardi. – **ANN.:** "Con su transmisor FM en 92.00 mc/s desde Caracas Venezuela cuna del libertador transmite Ondas Populares...". – **V.** by QSL-card.
32) Cipreses a Miracielos 1, Caracas. – **German:** Sun. 01.45–02.15.
33) Ciudad Bolivar. – **L.P.:** Dir.: A. J. Isturiz.
34) Apt. 2057, Caracas. – **L.P.:** Dir. Gen.: A. Espina. Dir. Tec.: J. M. Coello. – **V.** by QSL-card or letter.
35) Apt. 76 Barquisimeto. **V.** by letter.
36) Comercio y Monzón 77, Coro. **Cable:** "Radiocoro". – **L.P.:** Dir. Gen.: R. Leyba. Dir. Tec.: V. J. Roca. – **N.:** 12.30, 16.30, 23.30. – **Nat. Music:** 10.30, 17.00. – **INT.-SIG.:** Opens and closes with the march "Los Tres Colores" and the Nat. Anthem. – **V.** by letter.
37) Apt. 26, Cumana. – **L.P.:** Dir. A. Arreaza A. – **V.** by letter.
38) Apt. 514, Caracas. – **D. Prgr.: English:** Mo.-Fri 23.00–24.00 (N. 23.45). – "Noches en Venezuela (music)": 04.30–05.30.
39) Apt. 76, Barquisimeto. – **V.** by letter.
40) Llaguna a Ctel. Viejo, Caracas. – **D. Prgr.: English:** Mo.23.30–24.00. Fri. 01.00. **French:** Fri. 03.15. – **V.** by QSL-card.
41) Apt. 866, Caracas. – **V.** by QSL-card.
42) Apt. 37, Maracaibo. – **L.P.:** Dir.: L. G. Nebot. – **D. Prgr.: English:** D. 20.30. **Italian:** Sun. 22.30. – **V.** by QSL-card.
43) C. A. Radio Cultura, Caracas. – **D. Prgr.: Italian:** D. exc. Mo. 01.30. – **V.** by QSL-card.

Medium Waves:

44) **R. 810**, Valencia. – Owners: as 11).
45) **R. Miranda**, Los Teques. – **L.P.:** Dir.: A. L. Lovera.
46) **R. Cronos**, Barquisimeto.
47) **R. América**, Valencia. – **L.P.:** B. A. Heredia.
48) **R. Nueva Esparta**, Porlamar. – **L.P.:** as 12).
49) **R. Puerto la Cruz**, Puerto la Cruz. – **L.P.:** as 12).
50) **R. Catatumbo**, Maracaibo. – **L.P.:** Dir.: M. Portillo.
51) **R. Central**, Maracay.
52) **R. Calendario**, Calle 96, P.O. Box 789, Maracaibo.
53) **R. Guarico**, San Juan, Morros. – **L.P.:** Dir.: J. Ghersi.
54) **R. Lagunillas**, Lagunillas. – **L.P.:** Dir. M. Portillo.
55) **Ondas de los Medanos**, Coro. – **L.P.:** Dir.: M. A. G. Leyba.
56) **R. Acarigua**, Acarigua. – **O.:** R. Continente.
57) **R. Barinas**, Barinas. – **L.P.:** Dir.: R. S. Rios.
58) **R. Junin**, S. Cristobal. – **L.P.:** Dir.: J. R. Cortez.
59) **La Voz de la Victoria**, La Victoria. – **L.P.:** Dir.: P. Paiva M.
60) **R. Crono-Radar**, Av. General Paéz, El Paraiso, Caracas. –
61) **R. Guanare**, Guanare. – **L.P.:** Dir.: Z. La Hoz.
62) **R. San Cristobal**, San Cristobal.
63) **R. San Carlos**, San Carlos. – **L.P.:** Dir.: R. I. Carcaño.
64) **Ondas del Escalante**, S. Barbara del Zulia.
65) **R.dif. La Pascua**, Calle Real No. 17, Valle de la Pascua. – **D. Prgr.:** 10.30–03.30. – **V.** by letter. R.p.
66) **R. Eduardo Méndez**, Aragua de Barcelona. – **L.P.:** as 12).

STANDARD FREQUENCIES AND TIME SIGNALS

R. STATION WWV AND WWVH (Go.)

ADDR.: Nat. Bureau of Standards Boulder Laboratories, Boulder, Colorado, USA – WWV: Box 182, Route 2, Lanham, Maryland – WWVH: Box 901, Puunene, Maui, T. H. – **L.P.:** Dir. Tec.: WWV: Fr. Sera. Dir. Tec. WWVH: S. Katahara.

Standard Radio Frequencies: WWV: 2500 kc/s 120 m 1 kW – 5000 kc/s 60 m 10 kW – 10000 kc/s 30 m 10 kW – 15000 kc/s 20 m 10 kW – 20000 kc/s 15 m 1 kW – 25000 kc/s 12 m 0.1 kW. The Broadcasts are continuous, night and day, exc. WWV is off the air approx. 4 min. each h. The silent period commences at 45 min. plus 0 to 15 seconds, after each h.

WWVH: 5000 kc/s 60 m 2 kW – 10000 kc/s 30 m 2 kW – 15000 kc/s 20 m 2 kW.

WWVH is interrupted 4 minutes after each h. and half h. and 34 minutes beginning at 19.00 each day.

Time signals: The audio frequencies are interrupted precisely two minutes before each h. They are resumed precisely on the hour and each five min. thereafter; they mark accurately the hour and the successive 5-min. periods.

ANN.: "National Bureau of Standards, WWV, when the tone returns Eastern Standard Time is...AM or...PM" – **V.** by QSL-card or letter. – **PUB.:** Prgr. sched. on request.

NATIONAL PHYSICAL LABORATORY (Go.)

ADDR.: Teddington, Middlesex, Gt. Britain.

MSF STANDARD FREQUENCY SERVICE:

kc/s	m	kW		kc/s	m	kW	
60	5000	10	14.29–15.30	5000	60	0.5	continuous*
2500	120	0.5	– – –*	10000	30	0.5	– *

*) exc. for break in transm. from 15–20 minutes past each h.

ANN.: Call sign 3 times in slow Morse. "This is MSF, Rugby England transmitting carrier and modulation frequencies within 2 parts in 108 of nominal on 2500, 5000 and 10000 kc/s". – V by letter.

ROYAL GREENWICH OBSERVATORY

ADDR.: Time Dept., Herstmonceux Castle, Hailsham, Sussex, England.

The international time signals of the Royal Greenwich Observatory are radiated as follows: 10.00 and 18.00 Rugby GPB30 10332.5, GIC37 17685.0 kc/s. At 18.00 also long wave GBR 16 kc/s and GBZ 19.6 kc/s.

TIME SIGNALS FROM DOMINION OBSERVATORY, CANADA

ADDR.: Dominion Observatory, Dept. of Mines and Technical Surveys, Carling Av., Ottawa, Ontario. – **L.P.:** Dir. Adm.: Dr. C. S. Beals. Dir. Tec.: M. M. Thomson.

STATIONS: CHU 3330 kc/s 90.09 m 0.3 kW. – 7335 kc/s 40.90 m 3 kW – 14670 kc/s 20.45 m 0.3 kW – **D.PRGR.:** 24 h. **Time Signals** only, in voice and seconds pulses. – **ANN.:** Hours and minutes announced during the last 10 seconds of each minute: "Dominion Observatory, Canada, Eastern Standard Time...hours...minutes" – **V.** by QSL-card. – **F.PL.:** Standardization of frequencies in 1960. – **PUB.:** Prgr. sched. free on request.

STATION JJY

ADDR.: R. Research Laboratories, 13–6 chome, Iigura, Azabu, Minato-ku, Tokyo, Japan

Standard Freq. & Time Signals:

2500 kc/s	2 kW	06.59–22.59	10000 kc/s	2 kW	24 h. a day
5000 kc/s	2 kW	24 h. a day	15000 kc/s	2 kW	24 h. a day

The call-sign, time in Japanese Standard Time and the propagation disturbance warning notice are given every 5 minutes

The st is off the air every 29–39 min of the hour – V. by QSL-card

HBN, NEUENBURG OBSERVATORY (Switzerland)

Standard Frequencies: Observed sched of HBN is as follows: 2500 kc/s: Sat. 07.10–Tues. 07.00, Wed. 07.10–Fri. 07.00. 5000 kc/s: Tues 07.10–Wed. 07.00, Fri. 07.10–Sat. 07.00.

Scheme per hour: 00.00–00.05 pause – 00.05–00.10 impulses each sec. – 00.10–00.15 pause – 00.15–00.20 impulses each sec. – 00.20–00.25 pause – 00.25–00.30 440 c/s tone – 00.30–00.35 pause – 00.35–00.40 impulses each sec. – 00.40–00.55 pause – 00.55–00.60 impulses each sec. Before each 5 min.-transm. begins: 3 × HBN.

STATION LOL

ADDR.: Observatorio Naval del Ministerio de Marina Costanera Sud, Buenos Aires. – **L.P.:** Dir. Gen.: A. Acevedo. Dir. Tec.: A. Ricart.

Standard Freq. and Time Signals: LOL:

5000 kc/s	2 kW	10000 kc/s	2 kW	15000 kc/s	2 kW

D. on all freq.: 11.00–03.00.

Schedule: 4 min. dash (1200 c/s), beginning at 00.00, 00.05, 00.10 etc. Then 3 × LOL in morse and IGY alert call (4'20", 9'20", 14'20" etc.), followed by ann. (lady's voice) of Argentine time.

Every two months first-hand information on the world of broadcasting is offered to you in the

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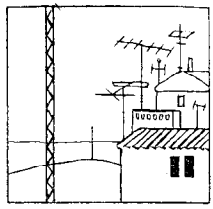
WORLD TELEVISION



The principal television systems:
Definition refers to the broadcast standard which is normally stated in terms of the number of lines which make up the image. Reference in the following surveys is made throughout merely to 405 lines, 525 lines, 625 lines (CCIR*), 625 lines (Soviet**) and 819 lines respectively. Details of these five definitions are given in the following table:

	Systems			
Number of lines per picture	405	525	625*)	819
Video bandwidth (Mc/s)	3	4	5	10.4
Channel width (Mc/s)	5	6	7	14
Sound carrier relative to vision carrier (Mc/s)	÷3.5	+4.5	+5.5	÷11.15
(Sound carrier relative to edge of channel (Mc/s)	0.25	÷0.25	÷0.25	+0.10
Interlace	2/1	2/1	2/1	2/1
Line frequency (c/s)	10.125	15.750	15.625	20.475
Field frequency (c/s)	50	60	50	50
Picture frequency (c/s)	25	30	25	25
Sense of vision modulation	Positive	Negative	Negative	Positive
Level of black as percentage of peak carrier	30	75	75	25
Sound modulation	AM	FM	FM	AM

* The International Radio Consultative Committee.

** The characteristics are the same as 625 lines CCIR exc. for a difference in bandwidth: video bandwidth 6 Mc/s, channelwidth 8 Mc/s, sound carrier relative to vision carrier +6.5 Mc/s.

WORLD TELEVISION

TELEVISION CHANNELS

A: American system:
Sound: Frequency mod.
Vision: Negative mod.
Number of lines: 525
Frame frequency: 30 c/s
Channel width: 6 Mc/s.

Channel No.	Vision carrier Mc/s	Sound carrier Mc/s
A-2	55.25	59.75
A-3	61.25	65.75
A-4	67.25	71.75
A-5	77.25	81.75
A-6	83.25	87.75
A-7	175.25	179.75
A-8	181.25	185.75
A-9	187.25	191.75
A-10	193.25	197.75
A-11	199.25	203.75
A-12	205.25	209.75
A-13	211.25	215.75
A-14	471.25	475.75
A-15	477.25	481.75
A-16	483.25	487.75
A-17	489.25	493.75
A-18	495.25	499.75
A-19	501.25	505.75
A-20	507.25	511.75
A-21	513.25	517.75
A-22	519.25	523.75
A-23	525.25	529.75
A-24	531.25	535.75
A-25	537.25	541.75
A-26	543.25	547.75
A-27	549.25	553.75
A-28	555.25	559.75
A-29	561.25	565.75
A-30	567.25	571.75
A-31	573.25	577.75
A-32	579.25	583.75
A-33	585.25	589.75
A-34	591.25	595.75
A-35	597.25	601.75
A-36	603.25	607.75
A-37	609.25	613.75
A-38	615.25	619.75
A-39	621.25	625.75
A-40	627.25	631.75
A-41	633.25	637.75
A-42	639.25	643.75
A-43	645.25	649.75
A-44	651.25	655.75
A-45	657.25	661.75
A-46	663.25	667.75
A-47	669.25	673.75
A-48	675.25	679.75
A-49	681.25	685.75
A-50	687.25	691.75
A-51	693.25	697.75
A-52	699.25	703.75
A-53	705.25	709.75
A-54	711.25	715.75
A-55	717.25	721.75
A-56	723.25	727.75
A-57	729.25	733.75
A-58	735.25	739.75
A-59	741.25	745.75
A-60	747.25	751.75
A-61	753.25	757.75
A-62	759.25	763.75
A-63	765.25	769.75
A-64	771.25	775.75
A-65	777.25	781.75
A-66	783.25	787.75
A-67	789.25	793.75
A-68	795.25	799.75
A-69	801.25	805.75
A-70	807.25	811.75
A-71	813.25	817.75
A-72	819.25	823.75
A-73	825.25	829.75
A-74	831.25	835.75
A-75	837.25	841.75
A-76	843.25	847.75
A-77	849.25	853.75
A-78	855.25	859.75
A-79	861.25	865.75
A-80	867.25	871.75
A-81	873.25	877.75
A-82	879.25	883.75
A-83	885.25	889.75

The following pages give you the data of the different TV stations of the world. The channel is indicated by a letter followed by a figure. The letter indicates the technical data of the systems which are in use (A: American, B: British etc.) and the figure is the channel number.

The powers for vision and sound are indicated by a fraction, the numerator indicating the number of kW (ERP) for vision and the denominator for sound, for example 6/1.5 means vision 6 kW ERP and sound 1.5 kW ERP.

B: British standards:
S.: Amplitude mod. Vision: P.tiv mod.
N. of lines: 405. Frame frequ.: 25 c/s.
Ch. width: 5 Mc (Ch. 1:7 Mc).

B-1	45.00	41.50
B-2	51.75	48.25
B-3	56.75	53.25
B-4	61.75	58.25
B-5	66.75	63.25
B-6	179.75	176.25
B-7	184.75	181.25
B-8	189.75	186.25
B-9	194.75	191.25
B-10	199.75	196.25
B-11	204.75	201.25
B-12	209.75	206.25
B-13	214.75	211.25

E.: European system:
Sound: Frequency mod. Vision: Negative mod. Number of lines: 625. Frame frequency: 52 c/s.
Channel width: 7 Mc/s.
(ch. 1 only 6 Mc/s).

Channel	Vision carrier	Sound carrier
E-1	41.25	46.75
E-1A	42.25	46.75
E-2	48.25	53.75
E-2A	49.75	55.25
E-3	55.25	60.75
E-4	62.25	67.75
E-4A	82.25	87.75
E-5	175.25	180.75
E-6	182.25	187.75
E-7	189.25	194.75
E-7A	192.25	197.75
E-8	196.25	201.75
E-8A	201.25	206.75
E-9	203.25	208.75
E-10	210.25	215.75
E-11	217.25	222.75

F: French standards:
Sound: Amplitude mod. Vision: Posiitve mod. N. of lines: 819 (ch. Fl.: 441) Frame frequency: 25 c/s. Channel width: 13, 15 Mc/s
(ch. 1: 7.6 Mc, ch. 8: 14 Mc).

F-1	46.00	42.00
F-2	52.40	41.25
F-3	56.15	67.30
F-4	65.55	54.40
F-5	164.00	175.15
F-6	173.40	162.25
F-7	177.15	188.30
F-8	185.25	174.10
F-8A	186.55	175.40
F-9	190.30	201.45
F-10	199.70	188.55
F-11	203.45	214.60
F-12	212.85	201.70

J: Japanese system:
Sound: Frequency mod. Vision: Negative mod. Number of lines: 525. Frame frequency: 30 c/s.
Channel width: 6 Mc/s.

J-1	91.25	95.75
J-2	97.25	101.75
J-3	103.25	107.75
J-4	171.25	175.75
J-5	177.25	181.75
J-6	183.25	187.75
J-7	189.25	193.57
J-8	193.25	197.75
J-9	199.25	203.75
J-10	205.25	209.75
J-11	211.25	215.75

R: Russian system:
Sound: Frequency mod. Vision: Negative mod. Number of lines: 625. Frame frequency: 25 c/s.
Channel width: 8 Mc/s

R-I	49.75	56.25
R-II	59.25	65.75
R-III	77.25	83.75
R-IV	85.25	91.75
R-V	93.25	99.75
R-VI	175.25	181.75
R-VII	183.25	189.75
R-VIII	191.25	197.75
R-IX	199.25	205.75
R-X	207.25	213.75
R-XI	215.25	221.75
R-XII	223.25	227.95

THE SPREAD OF TELEVISION

1) Number of TV stations. – 2) Number of TV receivers. – 3) Definition

	1)	2)	3)
Algeria	2	18.000	819
Argentina	1	200.000	625
Austria	13[6])	36.240	625
Australia	6	320.000	625[3]
Belgium	5	200.000	815 /625
Bermuda	1	5.500	525
Bolivia	1		525
Brazil	7	700.000	525
Bulgaria	1	4.000	625
Canada	55	2.990.000	525
China	1		625
Colombia	6	150.000	525
Cuba	22	350.000	525
Cyprus	1	300	625
Czechoslov.	4	272.916	625
Denmark	6	200.000	625
Domini. R.	2	15.000	525
El Salvador	3	15.000	525
Finland	4	4.280	625
France	32	893.017	815
Germ. Fed.R.	32[6])	1.817.704	625
Dem. R.	9	250.000	625
Gt. Britain	25[1])	23.300.000	525
Guatemala	2	11.000	525
Hawaii	9	200.000	525
Holland	5	345.489	625
Hungary	1	12.000	625
Iran	1	–	625
Iraq	1	10.000	625
Italy	208	957.616	625
Japan	48[2])	1.286.208	525
Korea	1	3.000	525
Lithuania	1	10.000	625
Luxembourg	1	3.500	819
Marianas Isl.	1		525
Mexico	12	400.000	525
Monaco	1	11.000	819
Norway	1	1.000	625
Panama	7	10.000	525
Peru	2	4.000	525
Philippines	2	18.000	525
Poland	5	80.000	625
Portugal	5	20.000	625
Puerto Rico	10	80.000	525
Rumania	1	6.000	625
Saudi Arabia	1	1.000	525
Spain	3	20.000	625
Sweden	10	175.000	625
Switzerland	7	43.823	625
Thailand	1	25.000	525
Turkey	1	1.000	625
Uruguay	1	15.000	525
USA	663	[7])	525
USSR	40	2.000.000	625
Venezuela	11	150.000	625
Yugoslavia	5	5.000	625

[1] BBC 19 Comm. 6. [2] NHK 21 Comm. 27. [3] ABC 2 Comm. 4. [4] CBC 8 Comm. 47. [5] + 2 frequency changer st's. [6] + 12 frequency changer st's and 38 low power freq. ch. st]s (SWF). [7] 45.592.000

EUROPE

★ AUSTRIA ★

ÖSTERREICHISCHER RUNDFUNK (Gesellschaft m.b.H.)
ADDR.: Argentinierstrasse 30a, Wien IV, and Television Dept., Singrienergasse 21. **Studio:** Maxingstr. 13a, Wien XIII. – **L.P.:** Dir. Gen.: Dr. Karl Cejka. Dir. TV: G. Freund. Dir. Tec.: Vice-Dir.: Gen.: Dipl. Ing. W. Füchsl.

STATIONS:	ch.	kW			ch.	kW	
Jauerling	E2	60/12	H	Gaisberg	E8	60/12	H
Patscherkofel	E4	60/12	H	Sonnwendstein	E10	1.5/0.3	H
Schmittenhöhe[1]	E5	500/100	H	Pyramidenkogel	E10	30/6	H
Kahlenberg	E5	60/12	H	Schladming[1]	E11	100/20	H
Pfänder	E5	60/12	H	Grünberg[1]	E11	10/2W	H
Linz	E6	3/0.6	H	Polster[1]	E11	1.5/0.3W	H
Schöckl	E7	60/12	H	Kahlenberg	E19[2]	10/2[3]	H
Baden[1]	E8	10/2	H				

Projected stations: Lichtenberg ch. 6 60/12 kW and several 10 w power stations. [1]) frequency-changer. [2]) temporary ch. [3]) testtransm.
D. Prgr.: Mo., Wed., Thurs., Fri. 18.00–20.15, Sat., Sun. 17.30–20.30 approx. Wed., Sun. also 15.00–16.00.

★ BELGIUM ★

INSTITUT NATIONAL BELGE DE TELEVISION (Go.)
ADDR.: I. N. R., Place Eugène Flagey 18, Bruxelles. – **L.P.:** Dir. French TV: Ph. Kammans. Dir. Flemish TV: B. V. Leysen.

FRENCH PRGR. Def. 819:				FLEMISH PRGR. Def. 625:			
Stations	ch.	kW		Stations	ch.	kW	
Liége	3	100/25	H	Antwerp	2	2/0.5	V
Bruxelles (Wavre)	8	100/25	H	Ruiselede	2	100/25	H
Bruxelles (Wavre)	10	100/25	H				

D. Prgr.: Mo.-Fri. 17.30–21.00. Sat., Sun. 13.00–21.00.

★ BULGARIA ★

BULGARIAN BROADC. (Go.) Sofia ch. R III 0.5/0.25 kW; only test programmes. The construction of a TV-centre in Sofia has begun.

★ CZECHOSLOVAKIA ★

CESKOSLOVENSKY ROZHLAS (Go.)
ADDR.: Ceskoslovenska televize, Vladislavova 20, Praha 2.
Cable: Televize, Praha. – **L.P.:** Dir. Gen.: M. Krejci. Mgr.: J. Krecek. Dir. Prgr.: Dr. V. Feldstein. Dir. Tec.: J. Janota. Dir. For. Rel.: V. Vysohlid. Dir. Slovak TV (Bratislava): E. Stefan.
STATIONS: Praha ch. R II 5/3 kW H – Ostrava ch. R II 12/5 kW. Bratislava ch. R III 12/5 kW H – C. Moravia ch. R VIII 10/4 kW H.
Projected St.: Ea. Bohemia ch. R V 10/4 kW H[1] – So. Bohemia ch. R III 12/5 kW H[2] – We. Bohemia ch. R IV 10/4 kW H[3] – Kosice ch. R V 10/4 kW H[3] – Banská Bystrica ch. R IX 10/4 kW H[4].
[1]) 1/5 1959. [2]) 30/9 1959. [3]) 1960. [4]) 1959.

★ DENMARK ★

STATE BROADCAST (Go.)
ADDR.: Television Dept., Danish State Radio, Radiohuset, Rosenørnsallé, Copenhagen. – **L.P.:** Dir. Prgr.: J. Fr. Lawaetz.

Stations (V).	ch	E	kW	Stations	ch	E	kW
Copenhagen	4		10/3	Naestved	6		60/20[1])
Fyn	3		10/3	W. Jutland	10		60/20
Ålborg	5		10/3	So. Jutland	7		60/20
Århus	8		10/3				

[1]) April 1959.
D. PRGR.: 19.00–20.00. **Childrens Hour:** Mo., Tues. 14.30–15.00, Thurs., Fri. 16.00–16.30. Sat. 16.30–17.00.

★ FINLAND ★

SUOMEN TELEVISIO. An independent commercial TV company exists for publicity prgrs., using the studios etc. of the Finnish TV.
ADDR.: Unioninkatu 16, Helsinki. – **L.P.:** Dir. Prgrs.: V. Zilliacus.
STATIONS: ch. E. Polarisation H.
Helsinki: ch. 6 10/2 kW H – Lahti ch. 9 15/3 kW H
Tampere ch. 8 0.2/0.05 kW H – Turku ch. 7 20/4 kW H
D. exc. Mo., Thurs.: 16.15 (Wed., Sat. 16.45, Fri. 16.30)–19.30.

★ FRANCE ★

RADIODIFFUSION-TELEVISION FRANCAISE
ADDR.: 107 Rue de Grenelle, Paris 7e. – **L.P.:** Dir. Gen.: C. Chavanon. Dir. Prgr.: d'Arcy. Dir. Information and Actuelles: Terrenoire. Dir. International Exchange: Robida. Dir. Tec.: Leschi. Dir. of Operation (Radio and TV): Mercier.

STATIONS:	ch.	F	kW			ch.	F	kW	
Caen-M. Pinçon	2		20/5	H	Mulhouse	8		20/2.5	H
Limoges[1]	2		0.003 0.0007	H	Oran[2]	8		0.05 0.012	H
Ajaccio[1]	4		0.05 0.012	V	Saint-Etienne	8		0.04 0.01	H
Nantes[1]	4		0.05 0.012	V	Lille	8A		20 5	H
Besanç.-Ville	5		0.012 0.003	H	Paris	8A		20 5	H
Lyon-Fourv.	5		0.2 0.032	H	Bourges-Neuvy	9		20 5	H
Pic-du-Midi	5		0.5 0.125	H	Bordeaux	10		0.5 0.125	Hd
Reims	5		3 0.75	V	Dijon	10		0.5 0.125	V
Reims-Vrigny	5		0.05 0.012	V	Grenoble	10		0.05 0.012	H
Rennes[1]	5		0.05/0.012	H	Rouen	10		10/2.5	H
Strasbourg	5		3/0.75	H	Toulon	11		0.04/0.01	H
Clerm.-Ferrand	6		5/1.25	H	Amiens	11		0.04/0.01	V
Cote d'Azur	6		3/0.75	V	Alger	11		0.05/0.012	H
Metz-Luttange	6		10/2.5	H	Epinal	12		0.01/0.003	V
Nancy-Vand.	7		0.05/0.012	V	Lyon M. Pilat	12		20/5	H
Le Havre	7		0.05/0.012	H	Cherbourg	12		0.5/0.125	H
Marseille	8		10/2.5	H					

[1] temporary. [2] temporary. Finished April 1959.
28 lowpower relay stations (30 mWatt–3 Watt) in: Annecy, La Bourboule, Mégève, Saint-Gervais.
Projected Stations: Limoges ch. F2 20/5 kWH (Sept. 59) – Auxerre Chaumont ch. F2 20/5 kWH (1960/61) – Nantes ch. F4 20/5 kWV (Dec. 59) – Carcassonne ch. F4 20/5 kWV (Autumn 1960) – Bastia[1] ch. F4 0.05 0.012 kWV (1960) – Besançon ch. F4 3 0.75 kWV (end 1960) – Rennes ch. F5 20 5 kWH (July 59) – Nord Alsace ch. F5 3/0.75 kWH (1960–61) – Pic-du-Midi ch. F5 20/5 kWH (end 1961) – Niort Melle ch. F7 10/2.5 kWV (Spring 1960) – Savoie Jura ch. F7 0.5/0.12 kWV (1960–61) – Mezieres ch. F8 0.5/0.12 kWV (Jan. 59) – Brest ch. F8 10/2.5 kWH (1960–61) – Amiens ch. F11 20/5 kWV (Oct. 59) – La Bastide ch. F11 0.5/0.12 kWV (1960–61) – Le Mans ch. F12 10/2.5 kWV (Begin. 1960) – Vannes ch. F12 0.5/0.12 kWH (1960–61) – Verdun ch. F12 0.5/0.12 kWV (1961).
D. PRGR.: Paris (Prgr. rel. by Dijon, Lille, Lyon, Marseille, Mulhouse, Nancy, Nantes, Rennes, Rouen, Strasbourg): Sun. 09.00–22.15 W.: 11.30–12.30, 18.30–approx. 22.00. (Thurs. also 15.30–17.45. Sat. also 16.00–18.30).
Radio relay links between: Paris–Lille, Paris–Strasbourg, Paris–Lyon–Marseille, Metz–Luxembourg, Dabo–Hornisgrinde (Germany), Lille–Cassel–Dover.

★ GERMANY ★

GERMAN FEDERAL REPUBLIC
Television has been developed by the various radio organizations (Rundfunkanstalten) and especially the Nord- and Westdeutscher Rundfunk. – A common prgr. is being broadcast throughout Germany under the title "Deutsches Fernsehen". Each of the organizations participates in the production of this prgr. In addition a number of regional broadcasts are transmitted by each of the broadcasting organizations.
Community television prgr. daily approx.: W.: 17.00–18.00, 19.00–22.00. Sun. additionally 12.00–12.30 and longer afternoon-programmes in case of sport-events. Testtransmissions approx.: 09.00–18.45.
ADDR.: Fernseh-Kommission der Arbeitsgemeinschaft der Westdeutschen Rundfunkanstalten, Hessischer Rundfunk, Frankfurt a/M

BAYERISCHER RUNDFUNK (Anstalt des öffentlichen Rechts)
ADDR.: Fernsehdirektion des Bayerischen Rundfunks, Rundfunkplatz 1, Funkhaus, München 2. – **Studio:** Floriansmühlstr., München-Freimann. – **L.P.:** Intendant des Bayerischen Rundfunks: Dr. Franz Stadelmayer. Dir. Television: Dr. Clemens Münster. Dir. Adm.: H. Spies. Dir. Tec.: Dr. F. Daser.

STATIONS:	ch.	E	kW			ch.	E	kW	
Günten	2		100/20	H	Passau	7		20/4	Watt V[1]
Kreuzberg	3		100/20	V	Jenner b.				
Ochsenkopf	4		100/20	V	Berchtesg.	10		2/0.4	Watt V[1]
Ochsenkopf	5		1/0.2	H[1]	Kreuzeck	10		2/0.4	Watt V[1]
Dillberg	6		100/20	H	Wendelstein	10		100/20	H
Rauschberg	6		2/0.4	Watt V	Würzburg	10		1/0.2	H

[1]) frequency-changer.
Projected st.: Frequency-changers: Powers not yet fixed. Begin 1959. Rad Reichenhall chE5, Eichstätte chE5, Tegernsee chE5, Füssen chE11.

RADIO BREMEN (Anstalt des öffentlichen Rechts)
ADDR.: Heinrich Hertzstr. 13, Bremen. **Cable:** Radio. – **L.P.:** Intendant: H. Kerneck. Chefingenieur: A. Olshausen. Fernsehbeauftragter: R. du Voitel. – **STATION:** Relay Hamburg.

HESSISCHER RUNDFUNK (Anstalt des öffentlichen Rechts)
ADDR.: Bertramstrasse 8, Frankfurt am Main. – **L.P.:** Intendant: E. Beckmann. Dir. Prgr.: Dr. H. J. Lange. Dir. Tec.: Dr.-Ing. F. Miseré. Dir. TV Play and Entertainment: H. O. Grünefeldt. Dir. TV Actualities: O. Meitzner. Press: E. R. Richter.
Stations: Feldberg ch. 8 100/20 kWH – Meissner ch. 7 100/20 kWH – Biedenkopf ch. 2 20/3 kWV – Marburg ch. 11 30/6 WH – Dillenburg ch. 5 0.75/0.15 WH. Frequency changer.
D. PRGR.: Testtransmissions: Mo.–Fri.: 12.00–15.00, 15.30–18.00.

NORD- UND WESTDEUTSCHER RUNDFUNKVERBAND–FERNSEHEN
(Gemeinnützige Körperschaft des öffentlichen Rechts – a corporation for public benefit.)
ADDR.: Rothenbaumchaussee 132–134, Hamburg 13 – Studios: Hamburg-Lokstedt: Gazellenkamp. Köln: An der Rechtsschule 2.

L.P.: Geschäftsführer: Dr. Georg Hubrich, (Rothenbaumchaussee 132/134) Intendant: Dr. W. Pleister. Stellvertreter des Intendanten: H. v. Plato. Tech. Leiter: Dr. W. Schwarz (sämtlich Hamburg-Lokstedt).

STATIONS:	ch.E.	kW		ch.E.	kW		ch.E.	kW
Oldenburg	2	100/20	Lübeck [1])	7	0.3/0.06	Hamburg	9	100/20
Flensburg	4	50/10	Hannover	8	5/1	Harz	10	100/20
Kiel	5	5/1	[2]) frequency changer					

D.PRGR.: W.: 16.00–17.00, 18.00–19.30, 19.00–21.00. Sun. 11.00–11.40, 13.30–14.00, 18.00–21.00.

WESTDEUTSCHER RUNDFUNK-FERNSEHEN

ADDR.: and L.P.: See Sound Broadcasting.

STATIONS:	ch.E	kW		ch.E.	kW
Bonn	5	0.24/0.05H	Köln	11	5/1 H
Wupperthal	6	0.9/0.18H	Teutoburg. Wld.	11	100/20H
Langenberg	9	92/18H	D. Prgr.: Sec. NDR		

SAARLÄNDISCHES FERNSEHEN A.G. (Comm.). – ADDR.: Uhlandstr. 5, Saarbrücken. – STATION: Schwarzenberg: Ch. E2 10/2 V. Relay von SWF.

SENDER FREIES BERLIN (Anstalt des öffentlichen Rechts)

ADDR.: Fernsehen, Reichskanzlerplatz 7–11, Berlin-Charlottenburg 9. – L.P.: Intendant: W. Geerdes. Dir. Prgr.: H. H. Fischer. Dir. Tec.: Dipl. Ing. U. Blässer. – STATION: Berlin-Witzleben ch. E7 50/10 kWH. D. approx. 14.00–21.00.

SÜDDEUTSCHER RUNDFUNK (Anstalt des öffentlichen Rechts)

ADDR.: Süddeutscher Rundfunk Fernsehen, Werastr. 61, Stuttgart. – Cable: Südfunk Stuttgart. – L.P.: Dr. H. Bausch. Programmleiter: Dr. Helmut Jedele. Tech. Dir.: Dr. R. Eberhardt.

STATIONS: Stuttgart ch. E11, 100/20 kW H. – Aalen ch. E8 20/4 kW V. – Pforzheim ch. E5 0.05/0.01 H*. – Projected St.: Waldenburg ch. E9 100/20 kW. Begin 1959. Heidelberg approx. 100/20, ch. not fixed. More frequency changers. * frequency changer.

SÜDWESTFUNK (Anstalt des öffentlichen Rechts)

ADDR.: Abt. Fernsehen, Hans Bredowstr., Baden-Baden. – L.P.: See Sound Broadcasting. Dir. Prgr.: K. P. Biltz.

STATIONS	ch.E	kW				
Raichberg	4	10/2H.	Freiburg	7	0.025/0.005d.H.[1]
Trier	5	0.04/0.008d.H.[1]	Baden Baden	7	0.04/0.008d.H.[1]
Koblenz	6	3/0.6H.	*Hornisgr.*	9	2/0.3d.H.
K'lautern	7	0.04/0.008d.H.[1]	Feldberg	8	10/2H.
Zweibrücken	7	0.005/0.001d.H.[1]	Weinbiet	10	1/0.2d.H.
			Kinh.berg	15	d.H.[2]

+38 low power – freq. changers. [1] freq. changer.[2] testtransmissions.

D. PRGR.: 16.00–17.00, 18.00–21.00 (Regional prgr.: 18.00–19.00).

GERMAN DEMOCRATIC REPUBLIC

STAATLICHES RUNDFUNK-KOMITEE (Go.)

ADDR.: Deutscher Fernsehfunk, Berlin-Adlershof, Rudower Chaussee 116, Berlin. Cable: Fernsehfunk, Berlin. – L.P.: Dir.: Heinz Adameck. Dir. Prgr.: W. Zahlbaum. Dir. Tec.: W. Günther.

STATIONS: ch. E. Berlin 5 – Brocken 6 – Dresden 145.25/150.75 mc/s – Helpterberg 3 – Inselsberg 5 – Karl-Marx-Stadt 8 – Leipzig 3 – Marlow 8 – Schwerin 11.

D. PRGR.: Testtransmissions: Mo.–Fri.: 12.00–15.00, 15.30–18.00. Sat.: 11.00–15.00, 18.00–19.00. – Prgr.: Mo.–Fri.: 10.00–12.00, 18.00–21.00 (Tues., Wed., Thurs. also 15.00–15.30). Sat.: 15.00–18.00, 19.00–21.00. Sun.: 09.00–11.00, 12.00–13.00, 14.00–17.00, 17.45–21.30.

★ GREAT BRITAIN ★

BRITISH BROADCASTING CORPORATION (Go.)

The BBC operates under a Royal Charter and under licence and agreement with Her Majesty's Postmaster General.

ADDR.: The British Broadcasting Corporation, Broadcasting House, London W1. – Cable: "Broadcasts; London Telex".

L.P.: Dir. Gen. TV: Sir Ian Jacob, K.B.E., C.B. Dir. TV: G. C. Beadle, C.B.E. Dir. Engineering: Sir Henry Bishop, C.B.E.

Stations	ch.	kW	Stations	ch.	kW
Divis	B1	12/3[2])	Rosemarkie	B2	1/0.25[2])
Crystal Palace	B1	200/50[1])	Kirk o'Shotts	B3	100/25[1])
Holme Moss	B2	100/25[1])	Norwich	B3	15/3.6d[2])
Truleigh Hill	B2	0.1/0.025[1])[3])	Rowridge (Isle of Wight)	B3	32/8d[1])
Londonderry (N Ireland)	B2	1/0.25[2])	Blaen plwy (W. Wales)	B3	2/0 5[2])
N Hessary Tor	B2	15/3.6d[1])			
Stations	**ch.**	**kW**	**Stations**	**ch.**	**kW**
Sandale	B4	16/4[2])	Douglas (Isle of Man)	B5	2.8/0.7d[1])
Les Platons	B4	1/0.25[2])	Dover	B5	0.33/ 0.0825d[1])[3])
Sutton Coldf.	B4	100/25[1])			
Meldrum	B4	17/4.25d[2])			
Wenvoe	B5	100/25[1])	Folkestone	B5	0.0007/ 0.00175d[2])
Pontop Pike	B5	12/3[2])			

[1]) vertical. [2]) horizontal. [3]) temporary.

D. Prgr.: All stations: Trade Test transmission Mo.–Sat. 11.00–13.00. Prgr. Hours approx.: W.: 15.00(Sat. 14.30)–18.00, 19.00–22.45 or 23.00. Sun.: 14.00–18.00, 19.30–22.45 or 23.00.

INDEPENDENT TELEVISION (I.T.A.) (Comm.)

ADDR.: 14 Princes Gate, London S.W.7. – L.P.: Chairman: Sir I. Kirkpatrick. Dir. Gen.: Sir Robert Fraser O.B.E. Dep. Dir. Gen.: B. Sendall. Chief Eng.: P. A. T. Bevan, B. Sc., M.I.R.E. –

STATIONS: [1]) vertical

Lichfield	ch. B8	200/50 kW[1])		(Midlands area)
Winter Hill	– B9	100/25 – [1])		
Croydon	– B9	120/30 – [1])		(London)
Black Hill	– B10	475/120 – [1])		(C. Scotland)
Emley Moor	– B10	200/50 – [1])		(No. Ea. area)
St. Hilary	– B10	(under constr)		

D. PRGR.: Mo.–Fri.: 13.45–23 00. Sat. 13.00–23 00. Sun. 13.15–22.30.

★ GREECE ★

The installation of a Television Station in Athens, for viewers of the Athens and Piraeus area only, is projected by the National Broadcasting Institute in the course of 1959.

★ HOLLAND ★

NEDERLANDSE TELEVISIE STICHTING (Go. – Foundation)

ADDR.: Postbox 80 Bussum. Cable: Televisie Bussum – L.P.: Pres : Prof. J .B. Kors O.P. Vice-Pres.: A. B. Roosjen. Gen. Secr., Treasurer: Jhr. Th. Röell. Dir. Prgr.: A. van den Dool. Dir. Tec.: Jr. C. J. Mol.

STATIONS:

Lopik ch. E4 20/4 kW H. – Goes ch. E7 5/1 kW H. – Markelo ch. E7 30/6 kW H. – Irnsum ch. E6 25/5 kW H. – Roermond ch. E5 50/10 kW H. – Projected station: Smilde ch. E6 50/10 kW at the end of 1959.

D. PRGR.: Mo. 19.30–21.00. Tues. 19.30–21.30. Wed., Thurs., Sat. 19.00–21.00. Wed., Sat. 16.00–16.30. Monday evening: newsreel and miscellanous prgr. Tues. evening: newsreel and film. Wed. evening: Weekly news summary and theatre. Thurs.: newsreel and misc. prgr. Sat. evening: newsreel and entertainment. Wed. and Sat. afternoon: ½ hour children's prgr. From April 1, 1959: Sunday evening.

★ HUNGARY ★

MAGYAR RADIO (Go.). ADDR.: Magyar Televizió, V. Szabadság tér 5, Budapest. – L.P.: Chief TV Dept : F. Kulcsár. Dir. Tec.: L. Hermann. – STATION: Budapest ch. RII 30/10 kW H. – Projected station: Pécs relay Budapest RIII 1/0 5 kW – D. PRGR.: Tues., Wed., Thurs., Fri.: 17.45(Thurs. 18.30, Fri. 19.00)–21.00. Fri. also 09.00–11.00.

★ ITALY ★

RADIOTELEVISIONE ITALIANA (State Service granted by public act to R.A.I.)

ADDR.: Direzione Centrale TV, via del Babuino 9, Roma. – L.P.: Dir Prgr. TV: Dr. Sergio Pugliese. Dep. Dir. Prgr.: TV: Dr. Aldo Passante. Dir. Tec. TV: Eng. Sergio Bertolotti. Dep. Dir's. Tec. TV: Eng. L. Sponzilli., Eng. Gino Orsini.

STATIONS	ch.		ch.		ch.
Abetone	(E-o)	C. Imperatore	(D-o)	Genova Righi	(B-o)
Agnone	(G-o)	Candoglia	(E-v)	Golfo di Salerno	(E-v)
Agordino	(E-o)	C. Spartivento	(H-o)	Gorizia	(E-o)
Alcamo	(E-v)	Capri	(F-v)	Imperia	(E-v)
Alleghe	(G-o)	Carrara	(G-o)	Lagonegro	(H-o)
Alpago	(E-o)	Casentino	(B-o)	La Spezia	(F-o)
Altipiani Arci-nazzo	(H-v)	Cas. Valsenio	(G-o)	Lecco	(H-o)
Amaseno	(A-o)	Casoli	(D-o)	Leffe	(E-v)
Ancona	(G-v)	Cassino	(E-o)	Lucoli	(F-o)
Antrodoco	(E-v)	Cast. di Sangro	(G-o)	Lunigiana	(G-v)
Aosta	(D-o)	Castiglioncello	(G-o)	Madonna Campiglio	(F-o)
Arsiè	(E-o)	Catanzaro	(F-v)	Marca di Posteria	(D-v)
Ascoli Piceno	(G-o)	Ceva	(E-o)	Marradi	(G-v)
Asiago	(F-v)	Cima Palon	(H-o)	Martina Franca	(D-o)
Aulla	(H-v)	Cima Penegal	(F-o)	Marzabotto	(H-o)
Auronzo	(G-v)	Claut	(F-o)	Massa	(H-v)
Bagni di Lucca	(B-o)	Col Visentin	(H-o)	Merano	(H-o)
Bagno di Romagna	(G-v)	Colle V. D'Elsa	(G-v)	Mercato Sara-ceno	(G-o)
Bagnone	(E-v)	Como	(H-v)	Mezzolomb.	(D-v)
Bardi	(H-o)	Cortina D'Ampezzo	(D-v)	Milano	(G-o)
Bardonecchia	(D-o)	Courmayeur	(F-o)	Mione	(D-v)
Bassa Garfagn.	(F-o)	Crotone	(B-v)	Modica	(H-o)
B. Val Lagarina	(F-o)	Dogliani	(E-v)	Modigliana	(G-o)
Bedonia	(G-v)	Domodossola	(H-v)	Mondovi	(F-o)
Bellagio	(D-o)	Edolo	(G-v)	Monopoli	(G-v)
Benevento	(G-o)	Fabriano	(G-o)	M. Argentario	(E-o)
Bertinoro	(F-v)	Feltre	(B-o)	M. Caccia	(A-o)
Bolzano	(D-o)	Filettino	(E-o)	M. Cammarata	(A-o)
Bordighera	(C-o)	Fiuggi	(D-o)	M. Celentone	(B-o)
B. Tossignano	(G-v)	Fivizzano	(E-o)	M. Conero	(E-o)
B. Val di Taro	(E-o)	Follina	(G-v)	M. Creò	(H-o)
Breno	(F-o)	Fondi	(H-v)	M. Faito	(B-o)
Brisighella	(H-v)	Fucino	(D-v)	M. Favone	(H-o)
Busalla	(F-o)	Gambarie	(D-o)	M. Lauro	(F-o)
Cagliari	(H-v)	Gardone Val Trompia	(E-o)	M. Limbara	(H-o)
Calalzo	(G-o)	Garfagnana	(G-o)	M. Nerone	(A-o)
Camaiore	(B-v)	Genova Polce-vera	(D-o)	M. Peglia	(H-o)
Campagna	(G-o)				
Campo Catino	(F-o)				

STATIONS:	ch.		ch.		ch.
M. Pellegrino	(H-o)	Porretta	(G-v)	Sezze	(F-o)
M. Penice	(B-o)	Portofino	(H-o)	Sondrio	(D-v)
M. Sambuco	(H-o)	Potenza	(H-o)	Sorrento	(F-v)
M. Scuro	(G-o)	Premeno	(D-v)	Spoleto	(F-o)
M. Serpeddi	(G-o)	P. Badde		Stazzona	(E-v)
M. Serra	(D-o)	Urbara	(D-o)	Subiaco	(D-o)
M. Soro	(E-o)	P. Bore Tesino	(D-o)	Sulmona	(E-v)
M. Venda	(D-o)	Quercianella	(F-v)	Teramo	(D-v)
M. Vergine	(D-o)	Recoaro	(G-v)	Terminillo	(B-v)
Monteferrante	(A-o)	Riva d. Garda	(E-v)	Terni	(F-v)
Montorio al		Roccaraso	(F-v)	Tolmezzo	(B-o)
Vomano	(G-v)	Roma	(G-o)	Torino	(C-o)
Mugello	(H-o)	Rovereto	(E-o)	Torino Collina	(H-v)
Norcia	(G-o)	Rufina	(F-o)	Torric. Peligna	(G-o)
Noto	(B-o)	S. Antioco	(B-v)	Trapani	(H-v)
Oggiono	(E-v)	S. Bened. Val		Trieste	(G-o)
Oricola	(E-o)	di Sambro	(F-o)	Trieste Muggia	(A-v)
Ovada	(D-o)	San Cerbone	(G-o)	Trivero	(F-o)
Paganella	(G-o)	S. Giovanni in		Udine	(F-o)
Paluzza	(G-o)	Fiore	(E-o)	Vaiano	(F-o)
Pavullo nel		S. Giuliano		Valdagno	(F-v)
Frign.	(G-o)	Terme	(G-o)	Val di Cembra	(D-v)
Pescara	(F-o)	S. Marc. Pist.	(H-v)	Val di Fassa	(H-o)
Pietra Corniale	(D-v)	S. Marco in		Val Gardena	(D-v)
Pietrasanta	(A-o)	Lamis	(F-v)	Vallecorsa	(F-v)
Pieve di Cadore	(A-o)	San Nicolao	(A-v)	Val Taverone	(A-o)
Pievepelago	(G-o)	San Pellegrino	(D-v)	Velletri	(E-v)
Pieve S.		Sanremo	(B-o)	Vernio	(B-o)
Stefano	(F-v)	Santa Giuliana	(E-v)	Verona	(F-o)
Pigra	(A-o)	Santa Sofia	(E-v)	Vicenza	(G-v)
Plateau Rosa	(H-o)	Sassari	(F-o)	Villar Perosa	(H-o)
Plose	(E-o)	Savona	(F-o)	Vittor. Veneto	(F-o)
Poira	(G-v)	Scanno	(H-v)	Zeri	(B-o)
Pontassieve	(E-o)	Seravezza	(G-o)		
Ponte Chiasso	(D-v)	Sestriere	(G-o)		

Channels:
A (0) = mc/s 52.5–59.5. B (1) = mc/s 61–68. C (2) = mc/s 81/88. D (3) = mc/s 174–181. E (3a) = mc/s 182.5–189 5. F (3b) = mc/s 191–198. G (4) = mc/s 200–207. H (5) = mc/s 209–216.
D. PRGR.: W. 16.00–appr. 22.30. Sun.: 09.15–appr. 11.00, 14.30 Sport, 16.30 Children's hour, 17.30 N., 17.45–22.30 (approx.).

★ LUXEMBOURG ★

TELE LUXEMBOURG (Comm.)
ADDR.: Compagnie Luxembourgeoise de Télédiffusion. Villa Louvigny, Luxembourg. – **Cable:** Radio-Luxembourg. – **L.P.:** Dir. TV: M. Felten, Dir. Prgr.: J. Luc. Dir. Tec.: N. Schmit. – **STATION:** Def. 819. ch E7 100/25 kW H. – **D.PRGR.:** Mo.–Fri.: 18.00–21.20 (Wed., Thurs. 21.30). Sat. 17.00–21.40. Sun. 16.00–21.40.

★ MONACO ★

MONTE CARLO (Comm.): ch. F10 50/12 kWH.

★ NORWAY ★

NORSK RIKSKRINGKASTING (Go.)
ADDR.: and **L.P.:** See Norway. – **STATION:** Oslo ch. E4 1/0.5 H.

★ POLAND ★

POLSKIE RADIO (Go.)
ADDR.: Komitet de Spraw Radiofonii "Polskie Radio" – Telewizja, Warszawa, pl. Powstanców Warszawy 7. – **Cable:** Telewar. – **L.P.:** See Sound Broadcasting.
STATIONS H. Warszawa ch R3 7.5/2.5 kW H. – Lodz ch. R5 2.5/0.125 kW H. – Poznan ch. R6 0.045/0.0017 kW H – Katowice ch. R7 225/5 H. – Wroclaw R11 123/2.4 relay st. – **Projected stations:** Szczecin R8, Kielce R9, Warzawa II, R10 ,Gdansk R4. – **D,PRGR.: Warszawa:** 16.30–21.00 exc. Tues.; Sun.: 11.00–20.30. – **Lodz:** D. 3 h. between 17.00–21.00 exc. Tues. – **Poznan:** Wed., Thurs., Sat.: 18.00–20.30; Sun.: 17.00–20.30.

★ PORTUGAL ★

RTP – RADIOTELEVISAO PORTUGUESA S.A.R.L. (Comm., Portuguese: 1/3 of the shares).
ADDR.: Rua de S. Domingos (á Lapa) 26, Lisboa. **Studios:** Lisboa: Rua Particular à Alameda das Linhas de Torres 44. – Porto: Santo Ovídio, Villa Nova de Gaia. – **Cable:** Televisão. – **L.P.:** Pres. for the Board of Adm: Eng. C. de Mendonça. Adm. Major: J. B. Moniz, Tenente Coronel J. Sequeira. Dir. Studios: Eng. M. Bivar. Chief Eng.: Eng. F. M. Bordalo Machado. **Dir. Prgr.:** Dr. D. de Mascarenhas.
STATIONS ch. E: Lisboa (Monsanto) 7 100/20 kWH. – Porto (M. da Virgem) 9 100/20 kWH. – Coimbra (Lousa) 3 50/10 kWH. – Montejunto 6 1/0.2 kW. – Monchique (Foia) 5 6.5/1.5 kWH. – **D. PRGR.:** W.: 21.00–23.30. Sun.: 18.00–19.30, 21.00–23.30.

★ RUMANIA ★

RADIODIFUZIUNEA ROMINA (Go.)
ADDR.: Centrul de Televiziune, Bucuresti str. A. St. Popov Nr. 62, Republica Populara Romina. – **Cable:** Radiodifuziunea Romina, Bucuresti. – **STATION:** Bucarest ch. RIII 7.5/5 kW.H: D. 17.00–20.00 (Sun. 19.00). Sun. also 07.00–08.00.

★ SPAIN ★

R. NACIONAL DE ESPANA (Go.)
ADDR.: Televisión Española, Av. de la Habana 77, Madrid. – **L.P.:** Dir. Gen.: D. José M. Revuélta Prieto. Dir. Tec.: D. Joaquin Sanchez-Cordovés. Dir. Prgr.: D. Mariano O. Puchol. – **STATIONS:** Madrid ch. E3 2/0.5 kW.H. – Barcelona ch. E4. 20/5 kW H. – Zaragoza ch. E3 2/0.5 kW H. – **Projected stations:** Valencia ch. E3, Santiago ch. E4: 2/0.5 kW.H. 1959. Relay stations in Zaragoza, Barcelona, Valencia, Santiago, Granada, Cordoba under construction. – **D. PRGR.:** Madrid: 7 h. daily, 50 h. weekly.

★ SWEDEN ★

SVERIGES RADIO TELEVISION
Swedish TV, run Sveriges Radio, has the same non-commercial and official status as the broadcasting service.
ADDR.: Sveriges Radio-Televisionen, Valhallavägen 117, Stockholm Ö. – **Cable:** Broadcast. – **L.P.:** Dir. Gen.: Olof Rydbeck, Mgr.: Henrik Hahr. Dir. Prgr.: Per Martin Hamberg. – Dir. Tec.: Johan von Utfall. Dir. Press.: Philip von Krusenstierna. **Distribution of Programmes:** See Sound-Broadcasting.
STATIONS: ch E - - -. II.
Örebro 2 1/0.3 kW Stockholm 4 60/15 kW. Göteborg 9 1./5.0.5 kW Skövde 3 15/3 kW Karlstad 5 0.1/0.05 kW Gävle 9 15/3 kW Norrköping 5 1.5/0.2 kW Halmstad 7 15/3 kW Helsingborg 9 1/0.3 kW Nässjö 10 15/3 kW, Malmø 10 1/0.3 kW.
Projected stations:

Uddevalla 2	0.8/0.05 kW		Vänersborg 7	1/0.3	kW
Hörby 2	60/15	–	Västerås 8	5/2.5	–
Kalmar 4	0.1/0.05	–	Emmaboda 8	15/3	–
Sundsvall 5	15/3	–	Karlskrona 9	0.1/0.05	–
Växjö 5	0.1/0.5	–	Linköping 9	1/0.3	–
Borås 6	3/0.8	–	Visby 9	0.1/0.05	–
Bollnäs 6	15/3	–	Varberg 10	1/0.3	–
Västervik 6	15/3	–	Härnösand 10	0.1/0.05	–
Motala 7	3/0.8	–	Borlänge 10	15/3	–

D.PRGR.: Mo.: 14.00–approx. 14.20, 19.00–approx. 20.45. Tues.: 17.00–17.30, 19.00–approx. 20.45. Wed.: approx. 14.00–approx. 15.00. Thurs.: 12.00–approx. 18.00. Fri.: approx. 19.00–approx. 20.30. Sat.: approx. 17.00–17.30, 18.30–approx. 21.00. Sun.: 17.00–approx. 18.00. approx. 19.00–approx. 21.00.

★ SWITZERLAND ★

SWISS TELEVISION SERVICE (Go.)
ADDR.: Swiss Television Sce., 26 Kreuzstrasse, Zürich. – **Cable:** Telesuisse, Zürich. – **Prgr. Sce's: German:** Bellerive Studios, 2 Kreuzstrasse, Zürich. – **French:** Office: 112, Rue de Lausanne, Genève. – **Italian:** 26, Kreuzstrasse, Zürich.
L.P.: Dir. Swiss Television Service: Edouard Haas. Head German Prgr.: Dr. Guido Frei. Head French Prgr.: René Schenker. Head Italian Prgr.: Franco Marazzi. Head Tec.: H. R. Züst. Head Adm.: Rolf Wydler. Head Prgr. Coordination: Frank R. Tappolet.
STATIONS:
German Prgr.: Bantiger (Berne) ch E2 30/6 kW – Uetliberg (Zürich) ch E3 20/4 kW – Chrischona (Bâle) ch E10 10/2 kW – Säntis (St. Gall) ch E7 30/6 kW.
French Prgr.: La Dôle ch E4 100/20 kW.
Italian Prgr.: Monte Ceneri ch E5 10/2 kW – San Salvatore ch E10 10/2 kW.
Gap-filling transmitters (boosters): Tramelan (Jura), Sion (Valais), La Chaux-de-Fonds (Jura), Says (Coire), Martigny (Valais).
D. PRGR.: In **German, French** daily (exc. Tues.): 19.15 – about 21.00, and special prgrs. in the afternoon, f. inst. Eurovision, sporting events etc. – **Wed.:** afternoon **Children's Hour** – **Sat.** afternoon: **Children's Hour, Women's prgrs., Sports News.** – **Sun.** morning: **Outside broadcast** services from churches.
Until the Tessin obtains its own O. B. van and a small studio at Lugano Broadcasting House (probably 1960), the **Italian-speaking** transmitters relay, besides joint broadcasts, prgrs. from the German-speaking and French-speaking part of Switzerland, resp. with commentary in Italian.
Type of programmes: The Swiss TV programmes cover all subjects.
Relay facilities: A microwave link across the Alps. It runs from Gempen, near Bâle (northern Border) to Froburg-Bantiger-Jungfrau (12.200 ft.) – Monte Generoso (southern border) – Lugano. This link connects the northern and southern parts of Switzerland on the one side, and the German and Italian TV systems on the other side. – A second microwave link runs from Uetliberg-Froburg-Bantiger-Romont-La Dôle. It has been extended to Cuiseaux for the programme exchange with France.

★ USSR ★

STATIONS: ch. R—.

	ch.	kW		ch.	kW		ch.	kW
Moscow I	I	20/4	Minsk	III	–	Vilnius	V	15/7.5
Moscow II	II	–	Riga	III	–	Kalinin	II	20/4
Kiev	II	–	Tallinn	II	–	Odessa	I	20/4
Leningrad	II	20/4	Charkov	III	–	Riga	III	20/4

Other stations in operation: Tashkent, Tbilisi, Erivan, Stalino, Stalingrad, Krasnojarsk, Rjazan, Baku, Barnerul, Izhevsk, Odessa, Ohmsk, Tomsk, Alma-Ata, Novosibirsk, Karaganda, Gorky, Kazan, Saratov, Sumy, Vinnitsa, Vladivostok, Yaroslavl, Dniepropetrovsk, Laptevo, Serpukhor, Vladimir, Sverdlovsk. – It is planned to have 75 TV-centres in 1960.

TELEVISION CENTRE, MOSCOW (Go.)
ADDR.: Sjablovka 53, Moscow 162. – **L.P.:** Dir. for Television Studio in Moscow: I. Inozemtsev.
D.PRGR.: from **Moscow I:** W. 15.00–20.00. Sun. 10.00–20.00.
Moscow II: W. 16.30–19.00.

VILNIUS
ADDR.: See Sound Broadcasting. – **L.P.:** Dir. Stanislava Borisena. – **Station:** ch. RV 15/7.5 kW. – **F.PL.:** Network of relay stations.

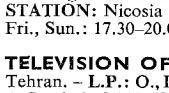
★ YUGOSLAVIA ★

ADDR.: Radiodiffusion-Television Yougoslave, Knez Mihajlova 19 Beograd. – **L.P.:** See Sound Broadcasting. Pres. of Prgr.: Commission for TV: D. Strbac. Pres. Technical Subcommission for TV: Eng. R. Zizic. – Radio-televizija: **Zagreb**, Jurisiceva 4: Dir. Gen.: I. Sibl. Dir. Prgr.: I. Bojanic. Dir. Tec.: Vojko. **Beograd**, Hilendarska 2: Dir. Gen.: M. Tepavac. Dir. Prgr.: D. Strbac. **Ljubljana**, Tavcarjeva 17: Dir. Gen.: F. Perovsek. Dir. Prgr.: L. Pohar.
STATIONS: Call: RTV—.
Beograd ch. E6 14/2.8 kWH, ch. E10 42/9.9 kWH. – Zagreb ch. E9 42/9.9 kW Hd. – Ljubljana ch. E6 1.7/0.4 kWH. ch. EL10 4.5/1 kWH.

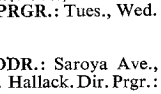
AFRICA

★ ALGERIA ★

RADIODIFFUSION TELEVISION FRANCAISE (Go.)
ADDR.: 10 rue Hoche, Alger. – **L.P.:** Dir. TV, Dir. Tec.: Godin. Dir. Prgr.: Ramettre. Dir. Adm.: Chemineau. Dir. Inf.: Delalande.
STATIONS: Def. 819: Alger ch. F11 0.5/0.125 kW H d. – Oran ch. F8 0.05/0.012 kWH, temporary, April 1959. – **Projected Stations:** Constantine ch. F12 10/1 kW (1960), Bone ch. F10 3/0.3 kW (1960), Chrea ch. F6 20/2 kW (1960).
D. PRGR.: 18.30(Thurs. 17.00, Sat. 15.30, Sun. 14.30)–21.30.



NEAR EAST



★ CYPRUS ★

CYPRUS TELEVISION SERVICE (Go.)
ADDR.: P.O. Box 824, Nicosia, Cyprus. – **L.P.:** Controller: H. Chambers. Mgr.: G. Mitsides. Dir. Tec.: Eng. A. D. Belle, B. Sc., A.M.I.E.E.
STATION: Nicosia ch. B2 1.5/0.4 kW H. – **D. PRGR.:** Tues., Wed. Fri., Sun.: 17.30–20.00.

★ IRAN ★

TELEVISION OF IRAN (Pr., comm.). – **ADDR.:** Saroya Ave., Tehran. – **L.P.:** O., Dir. Gen.: H. Sabet. Mgr.: V. Hallack. Dir. Prgr.: A. Samimi. STATION: ch. E2 2 kW.

★ IRAQ ★

BAGHDAD TELEVISION (Go.). **ADDR.:** Baghdad TV, Baghdad. – **L.P.:** Dir. Gen.: A. Rasim. Dir. Prgr.: J. G. Hamad. Dir. Tec.: K. Al-Hakim.–STATION: ch. E8 0.5/0.25 kW.–**D. Prgr.:** 15.00–18.30.

★ SAUDI ARABIA ★

DHAHRAN: O.: Arabian American Oil Co. ch. A2 12/6 kW.

★ TURKEY ★

TEKNIK UNIVERSITE (Go.). – **ADDR.:** Elektrik Fakültesi, Yüksek frekans teknigi Kürsüsü, Istanbul. – **L.P.:** Prof. A. Ataman. – STATION: ch. E4 0.1/0.1 kW d.

EAST

★ CHINA (The People's Republic of China) ★

PEKING (Go.): ch. 57.75 64.25 mc s. Exp.

★ JAPAN ★

NIPPON HOSO KYOKAI (Public Corporation, non-comm.)
ADDR.: The Japan Broadcasting Corporation, 2, 2-chome, Uchisaiwai-cho, Chiyoda-ku, Tokyo. – **Cable:** Radio NHK.
L.P.: See Sound Broadcasting.
STATIONS: Monochrome-TV: All the NHK stations use horizontal aerials exc. for the Kainan st. which uses a vertical.
Call: JO—TV. aerial power kW.

Name	Call	ch.	kW	Name	Call	ch.	kW
Tokyo	AK	J3	10/5	Kure	–	J11	0.012/0.006
Nagano	–	J5	0.025/0.013	Kumamoto	GK	J9	1/0.5
Osaka	BK	J4	10/5	Fukuoka	LK	J3	10/5
Kainan	–	J4	0.001/0.0005	Kokura	SK	J6	1/0.5
Nagoya	CK	J3	10/5	Kagoshima	HG	J3	5/2.5
Kanazawa	JK	J4	1/0.5	Sendai	HK	J3	5/2.5
Toyama		J3	3/1.5	Taira	–	J4	0.025/0.013
Shizuoka	PK	J5	1/0.5	Sapporo	IK	J3	5/2.5
Hiroshima	FK	J3	5/2.5	Hakodate	VK	J4	0.25/0.13
Okayama	KK	J5	5/2.5	Matsuyama	ZK	J6	0.25/0.13

Tokyo exp. Color TV: JOAK-TVX, ch. J3, 10/5 kW H.
D. PRGR.: Three periods morning, afternoon, evening (in Japan time) between W. 22.00 and 14.03. Sun. 22.00–14.07 (Daytime in Japan time) and a regular evening sce. (in Japan Time). On W. an average of 1.75 h per day are devoted to school prgrs. Also Sat., Sun. (daytime in Japan, but from 05.00 GMT) sports, theatre or cinema relays are presented. Such rel. prgrs. are also occasionally presented during weekdays. – Daily a total of 9 h and 3 min. The ratios of air time allotted to various types of prgr. are N.: 18.4%, education 19.9%, 29.4% for information, 27.5% entertainment, 4.8% sports. Color Television (system NTSC): Tokyo, exp. Wed., Thurs., Fri. 08.00–09.00. The st. serves as a means of gathering necessary data on the televising system, televising techniques, and other aspects connected with color television.
F.PL.: Preparations are in progress to establish a TV-st. in every major city in Japan. Plans are also being expedited for establishing an educational TV-st. in Tokyo in Jan. 1959 and another in Osaka in April 1959. These st. are expected to form the 2nd TV-network. The air time available to these st. will be allotted to different types of prgrs. in the following ratios: 7.6% for N., 71.4% for education, and 21.0% for information.

PRIVATE COMMERCIAL STATIONS Call: JO—TV ch. J.

	ch.	kW		
HR	1	80/40	H	Hokkaido Broadc. Co., Sapporo. – **L.P.:** Dir.
HO	6	6/3		Gen.: S. Abe.
HX	10	6.4/3.2	H	The TV Nishi-Nippon Corp., Yahato, Kyushu. –
FR	4	10/5	V	Mainichi Fukuoka TV, Shinkai-cho, Fukuoka. –
FO	8	1/0.5		**D. Prgr.:** W. 01.40–05.00, 08.30–11.45. Sun. 00.10–11.45.
FX	1	10/5	H	Tokai TV-Broadc. Corp., Higashi-ku, Nagaya.
OR	4	100/50		Radio MBS, Osaka. – **L.P.:** see Sound Broadc.
[1]EX	10	80/40	H	Nippon Educational TV Co., Chiba-park, Tokyo[1]
AR	5	92/46	H	CBC TV, Shinsakae-machi, Naka-ku, Nagoya.
DX	8	100/50	H	Kansai Telecasting Corp., Kita-ku, Osaka.
[2]NR	6	10/5	H	Asahi Broadc. Co., Naka 1-ch., Dojima, Osaka. **L.P.:** see Sound Broadc. – **D. Prgr.:** W. 02.30 (Fri. 01.55)–04.30, 08.30–14.10. Sun. 23.40–14.20.
BX	6	10/5	H	
IR	1	10/5		Tohoku Broadc. Co., Higashi-Nibancho, Sendai.
AX	4	10/5	V	Nippon TV-Netw. Co., Nibancho, Chiyod. Tokyo.
SR	11	1/0.5		Shin-etsu Broadc. Co., 1132 Yoshida, Nagano.
DR	5	5/2.5		R. Niigata Inc., 18–3 Kawagishi-cho, Niigata.
MR	6	3/1.5		Kokuriku Broadc. Co., Takaoka-machi, Kanaz.
YR	11	5/2.5		Sanyo Broadc. Co., Higashi-Nagasange, Okayama
ZR	8	1/0.5		R. Kochi Broadc. Co., 23 Hon-machi, Kochi.
AF	10	5/2.5		Nankai Br. Co., 30–1 Masaki-machi, Matsuyama.
KF	9	5/2.5		Nishi-Nippon Br. Co., 1297 Kita-cho, Takamatsu.
BF	11	1/0.5		R. Kumamoto Br. Co., 42 Kamitori-cho, Kumam.
IF	1	10/5		Kyushu Asahi Br. Co., 210 Kigashi-Nakasu, Fukuoka
IX	10	10/5		N. Osaka TV-Br. C., 36 Iwai-cho, Kita-ku, Osaka.
GX	8	1/0.5		Siebu-Mainichi TV-Br. C., Kiyotaki-machi, Moji.
KR	16	10/5	H	R. Tokyo, 1–2–1 Yuraku-cho, Chioda-ku, Tokyo.
[3]JX	1	1/0.5		Nihonkai Broadc. TV Co. Ltd., Tottori City.

L.P.: Dir. Gen.: H. Okawa. – **D. PRGR.:** 00.30–14.30. – **F.PL.:** 400 200 kW. – [2] **Asahi Broadcasting Co.** – **L.P.:** See Sound Broadcasting. – **D. Prgr.:** W. 02.30(Fri. 01.55)–04.30, 08.30–14.10. Sun. 23.40–14.20. – [3] May 1959.

★ KOREA (Rep.) ★

DAI HAN BROADC. CORP. (Comm.): **ADDR.:** 296 Kwan Ghul Dong, Chogno-ku Seoul. – STATION: ch. A9 0.5/0.25 kW.

★ PHILIPPINES ★

BOLINAO ELECTRONICS CORP. **ADDR.:** 5th f. Wm. Li Yao Bldg., Manila. – **Station:** DAZQ-TV, ch. A3. – **D. Prgr.:** 10.00–14.00.
CHRONICLE BROADCASTING NETWORK. **Addr.:** Aduana, Manila. – **Station:** DZXL-TV, ch. A9. – **D. Prgr.:** 10.00–15.00.

PROJECTED: Republic Broadcasting System, Quezon City: ch. A7 0.1 kW. The Manila Broadcasting Comp. The Evening News, Manila: ch. A13 1 kW. Chronicle Broadcasting Network, Manila: ch. A9 0.2 kW.

★ THAILAND ★

THAI TELEVISION CO. LTD.: Addr.: Manson B. Rajadammern Ave., Bangkok. Cable: ThaiTV. – **L.P.:** Dir. Gen.: Lt. Gen. Charusreni. Mgr.: P. Hongsananda. Dir. Tec.: A. Pojpisut. – **Station:** HST-TV ch. A4 10 5 kW H: Tues.–Sat. 10.30–15.00.

PACIFIC

★ AUSTRALIA ★

Standards: Def.: 625. Frame frequency: 25 ch. width: 7 mc. FM.

THE NATIONAL TELEVISION SERVICE

National Television is controlled by the Australian Broadcasting Commission, which is responsible to the Postmaster-General, whose department controls the transmitters. Television began in Australia in November 1956. – **ADDR.:** Australian Broadcasting Commission, 264 Pitt Street, Sydney. **Cables:** ABCOM, SYDNEY. – **L.P.:** See Sound Broadcasting. Controller of Technical Services: L. D. Hadfield. Ass. Controller of Prgrs. (supervising TV Prgrs.): C. W. Semmler. Chief Film Officer: N. R. Edwards.

The A.B.C. controls one station in Sydney (ABN) and one in Melbourne (ABV). Both operate on ch. 2 on 63-70 mc/s 100/24 kW. Def. 625.

The operating schedule (English) of both stations: Sun.: 04.30–06.00, 08.00–12.30. Mon.-Fri.: 06.00–12.30. Sat.: 03.30–12.30.

F.PL.: At the end of 1959 stations in Adelaide (Call-sign ABS), Brisbane (ABQ), Perth (ABW), Hobart (ABT). They will all operate on ch. 2, same power and lineage as ABN and ABV.

PRIVATE COMM. STATIONS:

AMALGAMATED TELEVISION SERVICES, Pty, Ltd. Television Centre, Epping, N.S.W. ATN: ch. 7 182.25/187.75 mc/s 100/20 kW: 00.00–13.15.

TELEVISION CORP. Ltd., Box 27; Willoughby, NSW. Cable: Diffusion Sydney. **L.P.:** Dir. Gen.: K. G. Hall. Mgr.: H. Baz. – TCN ch. 9 196.25/201.75 mc/s 100/20 kW H 03.00–12.30.

GENERAL TELEVISION CORP. Pty. Ltd., 22 Bendigo Str., Richmond E1, Victoria. Cable: Geeteevee. – **L.P.:** Gen. Mgr.: C. B. Bednall. Dir. Tec.: R. J. Biddle. Dir. Prgr.: N. Spencer. – **STATION:** GTV ch 9 196.25/201.75 mc/s 100/20 kW H. D.: 02.00 (Sat. 21.30)–14.00. – **F.PL.:** Three Victorian Country Stations late 1959.

HARALD SUN TV, Pty, Ltd.: Dorcas Str., So. Melbourne: ch. 7 182.25/187.75 mc/s 100/20 kW.

★ HAWAII ★

HAWAIIAN BROADCASTING SYSTEM Ltd., 1534 Kapiolani Blvd., Honolulu: KGMB-TV ch. A9 105/50 kW. KHBC-TV, Hilo: ch. A9 1/0.5 kW. KMAU-TV, Mt. Haleakala, Maui: ch. A3 6/3 kW. – **KAISER STATION,** Hawaiian Village, Honolulu: KHVH-TV ch. A4 25.3/12. – **R. HONOLULU Ltd.,** 206 Koula Str., Honolulu: ch. A2 60/30. kW – **TELEVISION CORPORATION OF AMERICA,** 1290 Ala Moana Blvd., Honolulu: KULA-TV ch. A4 25.3/12 kW. – **MAUI PUBLISHING CO.,** Box 374, Wailuku, Maui: KMVI-TV ch. A12 30.2/15 kW.

HOURS OF TRANSMISSION: approx: 21.00–09.00. **Comm.**

★ MARIANAS ISLANDS ★

GUAM: KUAM-TV: ch. A8 0.43/02.1 kW: 10.00–approx. 16.00.

NORTH AMERICA

★ CANADA ★

CANADIAN BROADCASTING CORP. (Publicly owned).

ADDR.: Quebec Region: CBFT, CBMT: 1425 Dorchester Str. West, Montreal – Maritime Region: CBHT, Bell Road, Halifax, Nova Scotia – Prairie Region: CBWT, 541 Portage Ave., Winnipeg, Manitoba. British Columbia Region: CBUT, 701 Hornby Str., Vancouver – Ontario Region: CBLT, 354 Jarvis Str., Toronto. CBOT,CBOFT, P.O. Box 39, Westboro, Ottawa.

L.P.: Controller of Operations – **Ottawa:** J. P. Gilmore – **Qu. Region:** CBFT, CBMT: Dir.: A. Ouimet. Prgr. Dir.: F. Guerard (CBFT, French), C. W. McGibbon (CBMT, English). Tec. Dir.: C. Frenette – **Maritime Region:** CBHT: Dir.: F. Brickenden. Prgr. Dir.: C. MacCaul. Tec. Dir.: J. Simonsen – **Prairie Region:** CBWT: Dir.: W. Carpentier. Prgr. Dir.: B. D. McPherson. Tec. Dir.: H. Heywood – **BC-Region:** CBUT: Dir.: Hugh Palmer. Prgr. Dir.: W. Inglis. Tec. Dir.: R. Whiteside – **O-Region:** CBLT: Dir.: F. Mutrie. Prgr. Dir.: R. W. McCall. Tec. Dir.: R. Horton. CBOT-CBOFT: Mgr.: Georges Huard. Prgr. Dir.: Dennis Townsend. Tec. Dir.: J. Book.

STATIONS:		ch.	kW	kW			ch.	kW	kW
Def. 525		A	v.	s.			A	v.	s.
Montreal	CBFT	2	100	50	Vancouver	CBUT	2	89.4	47.8
Montreal	CBMT	6	43.8	26.2	Toronto	CBLT	6	99.5	53.5
Halifax	CBHT	3	100	60	Ottawa	CBOT	4	50.1	26.7
Winnipeg	CBWT	3	57.8	34.7	Ottawa	CBOFT	9	55	31

CBOT: Mo.-Fri.: 22.00–05.30. Sat. 20.00–06.00. Sun. 18.00–05.30. CBOFT: D.: 10.00–02.30 exc. Sat.: 18.30–06.00. – CBHT: W.: 20.30–04.15.

The microwave network (English and French) has been in operation between Sydney, NS, and Victoria, BC, since July 1, 1958. It will be extended to Newfoundland in 1959.

PRIVATE STATIONS (Comm.). ch. A---.

	ch.	kW	
CJCB-TV	4	100/60	318 Charlotte St., Sydney, N.S.
CHSJ-TV	4	100/50	14 Church St., Saint John, N.B.
CJBR-TV	3	60.6/34.5	6 St. Jean., Rimouski, Quebec.
CFCM-TV	4	12.6/6.3	145 Rue St. Jean Bosco, Quebec.
CHLT-TV	7	180/176	3 Marquette St., Sherbrooke, P.Q.
CKWS-TV	11	257/154	170 Queen St., Kingston, O.
CHEX-TV	12	102/61.2	P.O. Box 696, Peterborough, O.
CHCH-TV	11	100/60	163 Jackson St., West Hamilt., O.
CKCO-TV	13	57.5/29.5	864 King St., West Kitchener, O.
CFPL-TV	10	325/195	P.O. Box 488, London, O.
CKLW-TV	9	325/180	825 Riverside Drive West, Windsor, O.
CKSO-TV	5	2.02/1.21	Regent and Ash St., Sudbury, O.
CPPA-TV	2	28/15	87 North Hill St., Port Arthur, O.
CKCK-TV	2	100/53.5	Leader Post Bldg., Regina, Saskatoon.
CFQC-TV	8	100/60	216 First Avenue North, Sas.
CHCT-TV	2	100/50	P.O. Box 550, Calgary, Al.
CFRN-TV	3	180.3/90.4	109 CPR Bldg., Jasper Avenue, Edm.
CJIC-TV	2	28/15	119 East St. Sault Ste. Marie, O.
CKX-TV	5	19.3/9.65	30th St. Victoria Ave, Brandon, M.
CKCW-TV	2	25/15	Knights of Pythias Hall, Moncton, N.B.
CJON-TV	6	21/11	Prince of Wales St., St. John's, NF.
CKVR-TV	3	26.6/13.3	P.O. Box 69, Barrie, O.
CJLH-TV	7	171/85.5	1015–3rd Ave. S., Lethbridge, Al.
CFCY-TV	13	79/39	85 Kent St., Charlottetown, P.E.I.
CKRS-TV	12	42/21	735 St. Hubert St., Jonquiere, Qu.
CKNX-TV	8	36/19.5	St. John St., Wingham, O.
CKGN-TV	10	51.5/25.7	P.O. Box 630, North Bay.
CFCL-TV	6	18.5/9.25	192 Toke St., Timmins.
CFCR-TV	4	0.1/0.05	Twin Cities TV. Ltd., Kamloops.
CHEK-TV	6	1.8/0.9	CHEK-TV, Ltd., Victoria.
CHAT-TV	6	4.7/2.4	Monarch Broadc. Co., Medicine Hat.
CKTM-TV	13	6/3	CKMI-TV 5 5.6/2.8: As CFCM
CKGN-TV	10	28.5/14.25	Tel-Ad. Co. Ltd., No. Bay.
CKRN-TV	4	50/25	R. Nord Ltd., Rouyn.
CJOX-TV	10	0.19/0.097	St. John's, Newfoundland
CFCL-TV	6	18.5/9.2	Lavigna Enterprise, Timmins, O.
CHBC-TV	2	3.7/1.6	Okanagan Valley TV Co., Kelowna BC.
CHCA-TV	6	6.6/3.3	CHCA-TV Ltd., Red Deer, Alta
CJES-TV	7	45.1/22.5	La Compagnie de T.V., Eastcourt Qu.
CJFB-TV	5	13/6	Swift Current Telecasting Co., Sask.
CJOX-TV	10	0.19/0.97	Nfld. Broadc. Co., Argentia, Nfld.
CKBI-TV	5	61/36	Central Broadc. Co., Prince Albert.Sask.
CKSO-TV	3	4/2	CKSO Radio Ltd., Elliot Lake, Ont.
CKOS-TV	3	5/2.5	Yorkton T.V. Co., Ltd., Yorkton Sask.

★ UNITED STATES OF AMERICA ★

Number of TV-stations: Total authorized 663. Licensed and operating: 555 (incl. 424 licensed and 131 operating CP's (incl. 45 suspended TV-stations). These figures do not incl. 32 operating non-com. educ. st.

EDUCATIONAL: 32 TV-stations.

ADDR.: Dept. of Health, Education, and Welfare, Office of Education, Washington 25, D.C. – **L.P.:** Franklin Dunham, Chief of Radio.

Approx. 500 commercial TV-stations carry educational prgrs. during free periods. 257 TV-channels have been reserved by F.C.C. for the use of non-comm. educational st.s Of 53 authorized educational TV-stations, 32 have operating permits, mainly in the large cities and university centres. They are of three types: 1) Community stations supported by voluntary funds; 2) University stations supported by State and local budgets; 3) State-owned networks covering entire divisions of the country supported entirely by taxation. The States having this type of operation are all located in the Southern areas. – An interesting development for educational purposes is closed-circuit TV, limited to universities and to individual school-systems. A prgr. sce. known as the Educational Television and Radio Center located at Ann Arbor Mich., supplies educational TV prgrs. to the present stations and in addition, distributes its prgrs. to both closed circuit and film projectors which are in use in thousands of schools.

THE ARMED FORCES RADIO & TELEVISION SERVICE

L.P.: Officer in charge: Lt. Col. J. N. Bornholdt.

A: Army. AF: Air Force. N: Navy. RCA: Royal Canadian Army.

Name	Sce.	Ch.	A	Watt
ALASKAN AREA				
Adak	N	8		200
F. Greely	A	8		200
Kodiak	N	8		200
CARIBBEAN AREA				
F. Clayton	A	8		200
F. Davis	A	10		200
Ramey	AF	21		1kW
Guantanamo	N	8		200
N. ATLANTIC				
Goose Bay	RCA	8		200
Harmon AFB	AF	8		200
Terceira, Lajes	AF	8		50
Kindley AFB	AF	10		200
Sondrestrom	AF	8		200
Thule AFB	AF	8		50
Keflavik	AF	8		200

Name	Sce.	Ch.	A	Watt
PACIFIC AREA				
Eniwetok, M.I.	AF	9		200
Guam, M.I.	N	10		200
N. AFRICAN AREA				
Tripoli	AF	8		200
Asmara	A	8		100
Dhahran	AF	8		200
EUROPE (Germany)				
Spangdahlem	AF	UHF		200
Ramstein	AF	YHF		200
FAR EAST AREA				
Okinawa	AF	8		200
Seoul	A	3		500
Camp Kaiser	A	being inst.		
Paju-Ri	A	12		50
Camp Cosey	A	3		50
Uijongbu	A	12		50
Clark AFB	AF	8		200

COMMERCIAL: 555 licensed and operating.

American Broadcasting Co., 7, West 66th Str., New York 23, N.Y. – **L.P.:** Acting Pres.: L. H. Goldenson. Pres. of TV-network: O. Treyz. Vice Pres., Press Inf.: M. J. Foster.

Columbia Broadcasting System Inc., 485 Madison Av., New York 22, N.Y. – **L.P.:** Pres CBS TV-stations Div.: L. G. Gowan.

Owned and operated st.: New York: WCBS-TV, ch. A2, 42 21 kW. Chicago: WBBM-TV, ch. A 2, 100.50 kW. Los Angeles: KNXT, ch. A 2, 46.8.23.4 kW. Milwaukee: WXIX, ch. A19, 257/141 kW H. Hartford: WHCT, ch. A18, 158/87 kW H. Philadelphia: WCAU-TV, ch. A10, 316/158 kW.

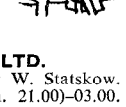
National Broadcasting Co., RCA Building, New York 20, N.Y. – **L.P.:** Chairman of the Board: R. W. Sarnoff. Pres.: J. M. Clifford.

Owned and operated st.: New York: WRCA:TV ch. A4, 30/15 kW. Hartford: WNBC: ch. A3 100/60 kW. Washington: WRC-TV, A4 100/50 kW. Chicago: WNBQ-TV, ch. A 5 100/50 kW. ch. Philadelphia: WRCV-TV, ch. A 3 100/50 kW. Sacramento, Cal.: KRCA-TV, ch. A 3 100/50 kW. Pittsburg Pa.: WAMP, ch. A 0 00 kW.

Westinghouse Broadcasting Co., Chanin Bldg., 122. East 42nd Str., New York 17, N.Y. – **L.P.:** Pres.: D. H. McGannon. National TV Sales Mgr.: T. W. Judge. Public Rel.: M. R. Santangelo.

Alaska TV-stations: Anchorage: KTVA, ch. A11, 3/1.5 kW. Fairbanks: KTVF, ch. A 11, 11.5/5 kW: 20.00–08.00. KENI-TV, ch. A 2, 6/3 kW V.: 02.00–09.00. KFAR-TV: ch. A2 6/3 kW V: 03.00–10.00.

CENTRAL AMERICA



★ BERMUDA ★

BERMUDA RADIO AND TELEVISION CO. LTD.

ADDR.: Bermudiana Rd., Hamilton. – Man. Dir.: W. Statskow. – **STATION:** ch. A10 0.8 0.4 kW. D.: 22.00(Sun. 21.00)–03.00.

★ CUBA ★

CM	ch.	A	kW H	Name and address
[1]AB-TV	2	100	50	Telemundo, Habana and Pinar del Rio.
[2]KU-TV	2	55.25	59.75	Circuito CMQ, Stgo. de Cuba.
[3]H-TV	3	5	2.5*	CMBF Cadena Nacional, St. Clara.
[2]KJ-TV	3	27.5	13.7	Circuito CMQ, Holguin.
	ch.	**A**	**kW H**	**Name and address**
[3]BF TV	4	10	6*	CMBF Cadena Nacional, Habana.
[3]J-TV	4	5	2.5*	CMBF Cadena Nacional, Camaguey.
[2]HQ-TV	5	25.6	12.8	Circuito CMQ, Sta. Clara.
[2]Q-TV	6	100	50	Circuito CMQ, Habana.
[2]JL-TV	6	55.8	27.8	Circuito CMQ, Camagüey
BA-TV	7	10	5	Cia. Radio Universal, Habana.
[1])	7	32	16	Telemundo, Stgo. de Cuba.
[2]JV-TV	7	18.2	9.08	Circuito CMQ, Ciego
[1]RA-TV	8	32	16	Telemundo, Sta. Clara.
[3])	8	5	2.5*	CMBF Cadena Nacional, Holguin.
[2]GQ-TV	9	28.8	14.4	Circuito CMQ, Matanzas.
[1])FE-TV	9	32	16	Telemundo, Camagüey.
(CM)-TV	10	5		Edif. Ambar Motors, Televis. CMTV, Hab.
[1]GH-TV	11	32	16	Telemundo, S. Miguel.
[1])FF-TV	12	32	16	Telemundo, Gatibonico.
BJ-TV	12	5		G. Pumarejo Suhc., Hotel Hilton, Habana.
[1])	13	32	16	Telemundo, Holguin.
[3]G-TV	13	5	2.5*	CMBF Cadena Nacional, Matanzas.

* not ERP.

Projected stations: Circuito CMQ: Pinar del Río CMAQ-TV ch. A5 H. CMBF Cadena Nacional: Pinar del Río, Ciego de Avila ch. A2 5/2.5 kW.

[1]) Telemundo, Ambar Motors, Calle P. y 23rd, Vedado, Habana. – **L.P.:** Dir. Gen., Mgr.: A. Barletta. Dir. Tec.: V. Montes. Dir. Inf.: C. Lechuga. – **D. Prgr.:** 12.00–05.00.

[2]) **Circuito CMQ**, Edif. Radiocentro, Habana. – **L.P.:** See Sound Broadcasting. – **Stations:** Habana CMQ-TV, Matanzas CMGQ-TV, Sta. Clara CMHQ-TV, Ciego CMJV-TV, Camagüey CMJL-TV, Holguin CMKJ-TV, Stgo. de Cuba CMKV-TV, Victoria ch. 70 Satellit. – **D. Prgr.:** 14.00–06.00.

3 CMBF Cadena Nacional, Mazón y San Miguel, Habana. **Cable:** CEMEBEFE.

★ DOMINICAN REP. ★

LA VOZ DOMINICANA-TV (Comm.): Calle Miami Ciudad Trujillo, D.S.D. **Cable:** Dominicana. – HIT-TV ch. A4 16/8 kW.

RADIO HIN, Feria de la Paz, Apt. 287, C.I. **Cable:** Rahin. – HIN-TV ch. A7 5/0.5 kW H. – **Proj. st.:** HI2N-TV ch. A6 5/0.5 kW.

★ EL SALVADOR ★

TELEVISION SALVADORENA S. A. (Comm.): **ADDR.:** 2a Avenida Norte No. 22, San Salvador. – **L.P.:** Gen. Mgr.: B. Eserski. – **St.:** YSFB-TV ch. A6 1.5/0.75 kW.

TELEVISION YSU, S. Salvador. – **L.P.:** Dir. Gen.: R. Trabanino. – **ST.:** YSU-TV ch. A4 77/38 kW: 18.00–20.00, 23.00–04.00.

★ GUATEMALA ★

TELEVISION NACIONAL (Go.). **ADDR.:** Edif. de la Tipografia Nacional, Calle 18 de Septiembre y 7a Ave. Sur. Guatemala. **L.P.:** Dir. Gen.: J. M. Lehnoff. Mgr.: C. Murga. Dir. Tec.: M. Mazariegos. Dir. Inf.: Mrs. J. Jaúregui. – **STATION:** ch. A8 0.3/0.2 kW V. – **TELEVISION GUATEMALA S. A.** (Comm.). **ADDR.:** 8a Ave. 9–23, Guatemala City. – **L.P.:** Dir. Gen., Mgr.: M. Bolaños G. Dir. Tec.: M. Batres S. Dir. Inf.: A. del Pinal. – **ST.:** TG-BOL-TV ch. A3 5/2.5 kW V.

★ MEXICO ★

TELESISTEMA MEXICANO S.A.:

Addr.: Ed. Televicentro, Av. Chapultepec 22, Mexico City, D.F. **L.P.:** Pres., Gen. Mgr.: Emilio Azcárraga. – **Stations:** XEW-TV ch. A2 50/25 kW[1] – XEQ-TV ch. A9 50/25 kW[2] rel. XEW (O.: R. Panamericana S.A.) – XH-TV ch. A4 5/2.5 kW (O.: Television de Mexico S.A.) – XEX-TV ch. A7 5/2.5 kW[2], rel. XH-TV (O.: Television Paso de Cortes) – XHGC ch. A5 5/2.5 kW[3] (O.: Television Gonzales Camarena) – XEZ-TV ch. 3 0.006/0.03 kW[3], rel. alternately XEQ, XEX (O.: Televisora del Centro). – All the stations are operated by Telesistema Mexicano S.A. – **D. Prgr.:** 21.00–07.00.

[1]) Ci. de Mexico. [2]) Altzomoni, Paso de Cortes. [3]) Queretaro.

TELEVISORA DEL NORTE S.A., 5 de Mayo Oriente 110, Monterrey. **Station:** XHNL-TV ch. A10 5/2.5 kW.

RADIO TELEVISION, S.A., Park Blvd. 4233, S. Diego Cal. and Tijuana, Baja, Cal.: XE-TV ch. A6 5/2.5 kW.

TELEVISION DE CHIHUAHUA, S.A., Chihuahua: **Station:** XERA-TV ch. A11 0.25/0.15 kW d. – **D. Prgr.:** 23.45–approx. 04.30.

TELEVISION DE LA FRONTERA, S.A. Box 442, El Paso, Tex. and Juárez. – **Station:** XEJ-TV ch. A5 3.65/1.8 kW.

TELEVISION DE MATAMOROS, S.A., c/o Romulo O. Farrill, Alfonso Herrera 67, Mexico DE. – **Station:** XELD-TV ch. A7 5/2.5 kW.

TELEVISORA DE MEXICALI, Mesicali, Baja Cal. Affiliated Telesistema Mexicans. – **Station:** XEM-TV ch. A3 5/2.5 kW.

★ NICARAGUA ★

TELEVISION DE NICARAGUA, S.A., Managua: YNSA-TV ch. A8 0.1/0.05 kW.

★ PANAMA ★

RADIODIFUSION PANAMERICANA, S.A., Calle 8a y 9a, Parque Lefevre: HOA-TV ch. A2 0.5/0.25 kW[1]. – **CORPORACION PANAMENA DE RADIODIFUSION, S.A.**, Policlinica del Seguro Social, Panama: HOHM-TV ch. A4 0.5/0.25 kW[1]. – **CORPORACION PANAMENA DE RADIODIFUSION, S.A.**, Cerro Campana, Colon: HOH2-TV ch. A6 0.5 0.25 kW[1]. – **FUERZAS ARMADAS DEL CARIBE**, Fuerte Clayton C.Z.: CFN-TV Panama ch. A8 0.25 0.12 kW; Colon CFN-TV ch. A10 0.25 0.12 kW. – **RADIODIFUSION PANAMERICANA S.A.**, Ed. El Panama America, Colon: HOW-TV ch. 12 0.5 0.25 kW[1]. – **RADIO NOTICIAS**, Apt. 5219, Ave. 3a y Calle 101 Este ,Panama: Chitre 1 kW[2], David 1 kW[2]. – **RADIO RELOJ TV**, Calle 29 Este y Ave. Cuba, Panama City: HOU44-TV, ch. A2 0.1 0.05 kW[3].

[1]) under construction. [2]) projected st. [3]) **D. Prgr.:** 22.00–03.00. –

★ PUERTO RICO ★

Call	ch.	A kW	Comm. exc. Dept. of Education
WKAQ-TV	2	100/50	El Mundo Inc., Box 1072, S. Juan
WAPA-TV	4	56.3/33.9	Ponce de Leon Broadc. Co. Inc., S. Juan
WKAQ-TV	3		El Mundo Inc., Box 1072, S. Juan
WAPA-TV	3	56.3/33.9	Ponce de Leon Broadc. Co. Inc., S. Juan
WORA-TV	5	29.5/15.5	Supreme Broadc. Co. Inc., Mayaguez
WORA-TV	5	10/3	R. Americas Corp., Box 43, Mayaguez
WIPR-TV	6	100/50	Dept. of Education, Box 4863, S. Juan
WSPR-TV[1]	6	100/50	R. Delgado Moiguez, Apt. 306, Hato Rey
WRIK-TV	7	1.4/0.7	Ponce TV Corp., Darlington Bldg., Ponce
WSUR-TV	9	0.8/0.4	American Colonial Broadc. Corp., S. Juan

D. PRGR.: 17.00 or 19.00 to approx. 03.00.

[1]) **L.P.:** Adm. Gen.: R. D. Moiguez. Dir. Tec.: R. R. Santiago. Dir. Inf.: J. Rivera. – **F.PL.:** ch. A3 30/15 kW.

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SOUTH AMERICA

★ ARGENTINA ★

PRIMERA TELEVISORA ARGENTINA S.A., Posadas 1725 y Ayacuchs 2075, Buenos Aires. – **L.P.:** Dir. Gen.: M. Puentes. Mgr.: M. A. Etchechouruy. Dir. Tec.: Eng. **Lichtstation.** LR3 ch. A7 5/2.5 kWH. D. 14.45 (Sat. 13.00. Sun. 12.00)–03.00. – **F.PL.:** 2 st. Buenos Aires, 6 st. in interior.

★ BOLIVIA ★

Radio Altiplano Casillo 1081, La Paz. Testtransmissions.

★ BRAZIL ★

Rio de Janeiro: R. Tupi ch A6 25/12.5 kW – R. Rio ch A13 25/12.5 kW **Projected:** R. Nacional ch A2 (1959). R. Globo ch A4. R. Mayrink Veiga ch A7. Emissora Continental ch A9.
Sao Paulo: R. Difusora de Sao Paulo ch A3 25/12.5 kW – Radio et Televisão Paulista ch A5 25/12.5 kW – R. Record ch A7 25/12.5 kW – **Belo Horisonte:** Televisão Itacolomi (R. Guarani), Av. Afonso Pena. St.: ch. A 4 10/8 kW . Wed. 18.00–02.00. Sun. 13.00–02.00.
Recife: Projected: TV-Jornal do Comercio, rua do Lima ch A2 1959.
Santos: R. Difusora de São Paulo ch A8.
Curitiba: Radio Televisão Paraná S.A. ch A6.
Goiania: Projected: R. Anhanguera Difusora e Televisora S.A. ch A2

★ COLOMBIA ★

R. TELEVISORA NACIONAL (Go.), Carrera 10-N 24–29, Bogota. HJRN-TV: ch. A8 1/0.25 kW. 23.30–04.00. **Satellite stations:** Cali ch. A7 50/25 kW d. Cerro Gauli ch A11 50/25 kW d. Manizales ch. A11 d. Medellin ch. A7 d. Alto Magdalena ch A7, Quindio ch A9 Valle del Causa ch A7. Boyacá ch A10. Bucaramanga ch A10.

★ PERU ★

STATIONS: Ministry of Education OAD-TV (Cultural) – **Radio America,** Ocoña 476, Lima OAX4U-TV ch A4 2/1 kW (Comm.).

★ URUGUAY ★

SOCIED ANONIMA EMISORAS DE TELEVISION Y ANEXOS (S.A.E.T.A.), (Comm.) Calle Uruguay 1218, Montevideo. **L.P.:** Dir. Gen. Mgr.: R. Fontaina. Dir. Tec.: A. Galimberti. ch. A10 0.35/0.17 kW: 21.00–02.30. **F.PL.:** 3 kW.
Projected: SODRE (Go.) Calle Mercedes 973, Montevideo. CXA-TV ch. A5 5/2.5 kW. approx. 2–3 daily.

★ VENEZUELA ★

TELEVISORA NACIONAL (Go.), Llaguno a cuartel Viejo, Caracas. – YVKA–TV ch. A5 37.2/18.6 kW.
TELEVISA VENEZOLANA (Comm.), Av. S. Juan Francisco de la Salle, La Colina Caracas. **Stations:** YVLV–TV: Caracas ch. A4 15/7.5 kW. **Valencia:** ch. A11 0.33/0.16 kW. Maracaibo ch A9 1/1/0.5 kW. La Guaira ch. A7 3.3/1.6 kW. Coro ch. A8.
RADIO CARACAS-TV (Comm.). Ed. R. Centro, Barcenas á Rio, Caracas. – **L.P.:** Dir. Gen.: A. Espina. Dir. Tec.: J. M. Coello. Dir. Inf.: F. C. Moreno. – **Stations:** Caracas ch. A2 64/32 kW H. Curimagua ch. 10 330/165 kW. Maracaibo ch. A2 600/300 kW Carabobo ch. A7 12.8/6 kW. La Guayra ch. A7 10/5 kW. Barquisimeto ch. A2 0.5/0.25 kW. Puerto La Cruz ch. A7.
ONDAS DEL LAGO (Comm.) Maracaibo. **L.P.:** Dir. Gen. Pres. N. Quintero. Asst. Dir. Gen.: M. E. P. Diaz. Dir. Tec.: I. Salcedo. Dir. V. Publ. Rel.: Dr. M. Piedra. **Station:** ch. A13 2/1.5 kW. **D.Prgr.:** 22.30–03.30. **RADIO VALENCIA (Comm.)** Under construction ch. A13.

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Adv.

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EUROPE — NORTH AFRICA — NEAR EAST

For medium waves of the other countries see the individual countries.

kc/s	Metres	kW	Stations
151	1987	500	**Moscow I** - USSR
—	1986	25	◦**Hamburg** - Germ. NDR
155	1935	10	**Tromsö** - Norway
—	1935	150	◦**Brasov** - Rumania
164	1829	250/500	◦**Allouis** - France
173	1734	1000	◦**Munich (VOA)** - Ger.
—	1734	500	**Moscow I** - USSR
—	~~1734~~	~~1000~~	~~**Munich (VOA)** - Ger.~~
182	1648	100	**Reykjavik** - Iceland
—	1648	10	**Luleå** - Sverige
—	1648	120	◦**R. Ankara** - Turkey
—	1648	400	◦**R. Europe I** - Saar
185	1622.4	100	◦**Deutschlandsender**
191	1571	35	**Tbilisi** - USSR
—	1571	150	◦**Motala** - Sweden
200	1500	100	**Moscow II** - USSR
—	1500	400	◦**Droitwich** - Gt. Brit.
209	1435	150	◦**Kiev I** - USSR
218	1376	35	**Baku** - USSR
—	1376	200	◦**Oslo** - Norway
227	1322	500	◦**Warsaw I** - Poland
233	1287	500	◦**Luxembourg I** X
236	1271	100	◦**Leningrad I** - USSR
245	1224	150	**Kalundborg I** - Den.
254	1181	200	◦**Lahti** - Finland
263	1141	150	◦**Moscow II** - USSR
272	1102.9	200	**Praha II** - Czechosl.
281	1068	100	◦**Minsk** - USSR
340	882.4	100	**Moscow II** - USSR
365	820	20	**Moscow II** - USSR
385	779	50	**Kharkov** - USSR
—	779	20	**Moscow II** - USSR
400	750	50	**Minsk** - USSR
420	714	10	**Östersund** - Sweden
433	693	10	**Oulu** - Finland
511	587	0.25	**Sulitjema** - Norway
520	577	2	**Braunschweig NDR**
—	577	1	**Joensuu** - Finland
—	577	5/0.2	**Bayreuth (BR)** - Ger.
—	577	0.2	**Nürnberg (BR)** - G.
—	577	0.2	◦**3 low power st.** Passau **(B.R)** - Germany
—	576.3	5	**Cottbus (DDR)** - G.
—	576.9	0.05	**4 low power** - Austr.
—	576.9	10	◦**Aldrans II** - Austria Innsbruck
—	576.9	20	**Lienz II** - Austria
529	561.1	20	**Berlin (DDR)** - Ger.
—	561.1	150	◦**Beromünster,** Switz.
539	556.5	135	◦**R. Kossuth** - Hung.
548	547.4	100	**Odessa** - USSR
—	547.4	100	**Moscow II** - USSR
557	539	100	**Helsinki I** - Finland
—	538.6	20/50	◦**Cairo III** - Egypt
—	538.6	1	**Timisoara** - Rum.
—	538.6	50	◦**M. Ceneri** - Switz.
—	538.6	20	**Potsdam (DDR)** - G.
—	538.6	1	**Guarda (R. Nac.)** - Portugal
—	539	10	**Stalingrad** - USSR
560	535.7	1	**Gibraltar**
566	530	100	**Athlone** - Ireland
—	530	10	◦**Caltanissetta** - Italy
—	530	20	◦**Freies Berlin** - Ger.
—	530	0.1/0.05	◦**8 low power st.** - Austria Braunau
570	526	25	**Godthaab** - Greenl.
575	522	100	◦**Mühlacker (S.D.R.)** - Germany
—	522	100	**Riga** - USSR
—	521.7	120	◦**Leipzig (DDR)** - G.
—	521.7	50/10	**Tel Aviv** - Israel
584	514	1	**Paris III** - France
—	513.7	1	**Sfax II** - Tunisia
—	513.7	25	**Klagenfurt II** - Austria
—	513.7	10	**Salzburg II** - Austr.
—	513.7	100	◦**Wien II** - Austria
—	513.7	120	**Madrid (R. Nac.)** - Spain
593	505.9	150	**Sundswall** - Sweden
—	505.8	100	◦**Frankfurt (H.R.)** - Germany
—	505.8	20	**R. Africa** - Tanger
—	505.8	20	**Meissner (HR),** Ger.
—	505.8	60	◦**Sofia 2** - Bulgaria
602	498.4	20	**Karl-Marx-Stadt (DDR)** - Germany
—	498		**Greifswald (DDR)** - Germany
—	498.4	2	**Damascus** - Syria
—	498	100	**Lyon I** - France
606	495	20	**Nicosia** - Cyprus
610	491.8	2	**R. Bahrain** - Bahr.
611	491	10/2	◦**Nürnberg/Grafenwöhr (AFN** - Germ.
—	491	140	**Sebaa-Aioun** - Mor.
—	491	5	**Eidar TFE** - Iceland
—	491	500	**Berliner Rundfunk I (DDR)** - Germany
—	491	100	**Petrozavodsk,** USSR
—	491	100	◦**Sarajevo** - Yugosl.
—	491	20	**Krasnodar** - USSR
620	483.9	300	◦**Cairo IV** - Egypt
—	483.9	0.25	**Tehran (AFRS** - Iran
—	483.9	150	◦**Bruxelles I** - Belg.
629	477	100	**Vigra** - Norway
—	476.9	20	◦**Tunis I** - Tunisia
—	476.9	25	◦**Aldrans I** - Austria Innsbruck
—	476.9	25	**Lauterach I** - Austr.
—	476.9	1	**Lienz I** - Austria
638	470.5	100	**BBC** - Cyprus
—	470.5	5	**Sevilla (R. Nac.)** - Spain
—	470.2	120	**Praha I** - Czechosl.
640	468.8	1	**R. Tabriz** - Iran
647	463.6	100	**Simferopol** - USSR
—	464	100	**Daventry** - Gt. Brit.
—	464	2	**4 low power** - G. Br.
650	461.5	5	**Godhavn** - Greenl.
652.1	460	0.8	**Tel Aviv** - Israel
656	457.3	20	**Bolzano I** - Italy
—	457.3	280	**Firenze I** - Italy
—	457.3	100	**Napoli I** - Italy
—	457.3	35	**Torino I** - Italy
—	457.3	10	**Venezia I** - Italy
—	457.3	150	**Murmansk** - USSR
660	454.5	20	**R. Kabul** - Afghan.
665	451.2	15	**Athens III** - Greece
—	451.2	0.7	**Hoefn** - Iceland
—	451.2	50	**Damascus** - Syria
—	451	10	**Kaiserslautern AFN** Germany
—	451	135	◦**Lisboa I** - Portugal
—	451	100	**Vilnius** - USSR
674	445.1	10	**Bodö** - Norway
—	445	150	**Rennes I** - France
—	445	0.1/0.05	◦**7 low power** - Austria Kitzbühel
677	443	20	**Jerusalem** - Jordan
683	439	150	◦**Belgrade I** - Yugosl.
—	439	100	◦**Berlin (RIAS),** Ger X
—	439.2	20	**R. Madrid** - Spain
692	434	20	**Moscow II** - USSR
—	434	2	**Cromer** - Gt. Britain
—	434	2.5	**La Coruña (R. Nac.)** Spain
—	434	20	**Nicosia** - Cyprus
—	433.8	20	◦**Erfurt (DDR),** Ger.
—	434	150	**Moorside Edge** - Gt. Britain
—	434	2	**Whitehaven** - Gt. Britain
—	434	0.1/0.025	◦**9 low power st.** - Austria
701	427.8	5	**Norden (N.D.R.)** - Germany
—	428	2	**Aachen (WDR)** Germany
701	428	2	**Herford (WDR)** - Germany
—	428	150	**Istanbul** - Turkey
—	428	140	**Sebaa-Aioun** - Mor.
—	428	20	**Finnmark** - Norway
—	427.2	100	◦**Bratislava** - Czesh.
710	422	150	**Marseille I** - France
—	422	100	**Stalino** - USSR
—	422.5	10	**Tallinn** - USSR
—	422.5	1	**Israel**
719	417.2	135	◦**R. Free Europe** - Germany
—	417.2		**Limassol (F.B.S.)** - Cyprus
—	417	10	**Porto I** - Portugal
—	417.2	150	**Östersund** - Sweden
—	417.2	2	**Aleppo** - Syria
725	413.8	50	**Djeddah** - S. Arabia
728	412	25	◦**Klagenfurt I** - Austria
—	412	150	**Athens I** - Greece
—	412	20/220	**Schwerin (DDR)** - Germany
737	407.1	20	**Berlin/Hof (RIAS)** Germany
—	407	100/10	**Jerusalem** - Israel
—	407.1	1.5	**Akureyri** - Iceland
—	407.1	300	◦**Poznán** - Poland
—	407.1	25	**Barcelona (R. Nac.)** Spain
—	407.1	10	**Chelyabinsk** - USSR
—	407.1	20	**Moscow II** - USSR
746	402	20	◦**Aleppo** - Syria
—	402	120	**Hilversum I** - Holl.
755	397	20	**Kuopio** - Finland
—	397.3	50	◦**Timisoara I** - Rum.
—	397.3	135	◦**Lisboa II** - Portug.
—	397	20	**R. Universidade** - Portugal
—	397.3	2	◦**Siegen (W.D.R.)** - Germany
764	392.6	150	◦**Sottens** - Switzerl.
—	392.7	10	**Rostov-Don** - USSR
773	388.1	150	**Stockholm** - Sweden
—	388.1	2	**Malmberget** - Swed.
—	388.1	5	**Valencia (R. Nac.)** - Spain
—	388	2	**Vatican Radio**
—	388	50/100	**Cairo I** - Egypt
—	388	1	◦**Salzburg I** - Austria
—	388	0.1/0.05	**7 low power** - Austr.
782	383.6	250	◦**Deutschlandsender** Germany
—	383.6	100	**R. Clube Portuguese** Portugal
—	383.6	100	**Kiev II** - USSR
791	379	100	**Limoges I** - France
—	379.2	50	◦**Salonika (VOA)** - Greece
800	375	100	**München (B.R.)** - Germany
—	375	0.25	**R. Alto-Douro** - Portugal
—	375	100	◦**Leningrad II** - USSR
—	375	5	**R. Sevilla EAJ5,** Sp.
—	375	5	**R. Aden** - Aden
809	371	100	**Burghead** - Gt. Brit.
—	371	5	**Redmoss** - Gt. Brit.
—	371	2	**Dumfries** - Gt. Brit.
—	371	100	**Westerglen** - Gt. Br.
—	370.8	135	◦**Skoplje** - Yugoslav.
—	370.8	10	**R. Barcelona EAJ1** - Spain
818	366.7	10	◦**Trieste I** - Italy
—	366.7	2	**Luxor** - Egypt
—	366.7	150	◦**Warszawa II** - Pol.
—	367	1	**Casablanca** - Moroc.
—	367	1	**Oujda** - Morocco
—	367	100	**Andorradio** - Andor.

kc/s	Metres	kW	Stations
820	365.9	5	**Frederikshaab** - Greenland
827	362.8	10	**Gorkij** - USSR
—	362	100	**Sofia I** - Bulgaria
—	363	20	**Tetuan** - Morocco
—	363	1	**Rabat** - Morocco
—	363	40	**Freiburg (SWF)** - Germany X
—	363	0.5/1	**2 stations (SWF)** - Germany
—	363	20	**Moscow II** - USSR
—	363	3	**Kaiserslautern/Sigmaringen (SWF)** - Germany
—	363	1.5	**Baden-Baden (SWF)** - Germany
836	359	10	**Ylivieska** - Finland
—	359	100/150	**Nancy I** - France
—	358	1	**R. Juv. de Barcelona** - Spain
—	359	4	**Beyrouth** - Lebanon
—	359	1	**Benghazi (FBS)** - Libya
—	359	20	**Kharkov** - USSR
845	355	0.2	**Helsinki III** - Finl.
—	355	150	**Roma II** - Italy
850	850.9	5	**Huelva (R. Nac.)**, Sp.
—	352.9	2	**Huelva (Interc.)**, Sp.
854	351.3	150	**Bucuresti I** - Rum.
—	351	7.5	**R. Madrid EAJ2**, Sp.
863	348	150	**Paris I** - France Villebon
—	347.5	10	**M. 1** - Egypt
872	344	150	**Frankfurt AFN** - Germany
—	344	20/50	**R. Petöfi II** - Hung.
—	344	30	**R. Zaragoza** - Spain
—	344	150	**Moscow III** - USSR
881	340.5	20	**Titograd** - Yugosl.
—	340.5	100	**Deutschlandsender** Germany
—	341	8	**Penmon** - Gt. Brit.
—	341	5	**Towyn** - Gt. Britain
—	341	2	**Wrexham** - Gt. Brit.
—	341	100	**Washford** - Gt. Brit.
890	337.1	200	**Alger I** - Algeria
—	337.1	15	**Linz** - Austria
—	337.1	20	**Bergen I** - Norway
—	337.1	20	**Kristianssand** - Norway
—	337.1	20	**Tröndelag** - Norway
—	337.1	20	**Uzjgorod** - USSR
895	335	50	**R. Iran** - Iran
899	333.7	150	**Milano I** - Italy
900	333	0.3	**Limassol** - Cyprus
908	330	140	**Brookmanns Park** - Gt. Britain
—	330	200	**R. Baghdad** - Iraq
909	330	1	**Cluj** - Rumania
912	328.9	20	**Reichenbach (DDR)** Germany
915	326	2	**Paphos** - Cyprus
917	327.2	5	**Tetuan** - Morocco
—	327.4	135	**Ljubljana I**, Yugosl.
—	327.1	10	**Nis** - Yugoslavia
926	324	150	**Bruxelles II** - Belg.
—	324	100	**Cairo II** - Egypt
935	321	200	**R. Africa Maghreb** - Tangier
—	321	100	**Lvov** - USSR
—	321	10	**Berlin AFN** - Germ. X
944	318	100	**Toulouse I** - France
—	318	20	**Voronezh** - USSR
953	314.6	20	**R. Intercontinental, Madrid** - Spain
—	315	100/30	**Praha I** - Czechosl.
962	312	100	**Turku I** - Finland
—	311.9	120	**Tunis II** - Tunisia
—	312	5	**Paris IV** - France
971	309	5	**Göttingen (NDR)** - Germany
—	309	100	**Hamburg (NDR)** - Germany
—	309	100	**Langenberg (WDR)** Germany
—	309	20	**Smolensk** - USSR
—	309	50	**Odessa** - USSR

kc/s	Metres	kW	Stations
980	306	200	**Alger II** - Algeria
—	306	10	**Assiout** - Egypt
—	306.1	2.5	**Trieste A** - Italy
—	306.1	150	**Göteborg** - Sweden
989	303.3	300/200	**Berlin RIAS** - Germ. X
—	303	8	**R. Malaga** - Spain
—	303.3	10	**Beyrouth** - Lebanon
998	301	8	**Heidelberg (SDR)** - Germany
—	301	0.2	**Buchen (SDR)**, Ger.
—	300.6	60	**R. Andorra**
—	300.6	100	**Kishinjov** - USSR
1007	298	120	**Hilversum II** - Holl.
—	298	50	**Corfu** - Greece
—	298	6	**R. Málaga (R. Nac.)** Spain
1016	295	120	**Rheinsender (SWF)** X Germany
—	295	1	**Sebaa Aioun** - Mor.
—	295	20	**Odessa** - USSR
1022	293	100	**Madrid (R. Nac.)** - Spain
1025	292.7	100	**Dobl** - Austria
—	292.7	100	**Kronstorf** - Austria Linz
—	292.5	10	**Lauterach II** - Austria
—	292.2	0.5	**Haifa** - Israel
—	292.7	5	**R. S. Sebastian EAJ8** - Spain
—	293	0.3	**Aden Forces B.** -
1034	290.2	0. 5	**2 St. AFN** - Germ.
—	290.1	8	**Milano II** - Italy
—	290.1	25	**Napoli II** - Italy
—	290.1	1	**2 low power** - Italy
—	290.1	2	**Genova** - Italy
—	290	100	**Tallinn I** - USSR
—	290.1	25	**Parede** - Portugal
—	290.1	10	**M. II** - Egypt
1043	287.6	20	**Rabat** - Morocco
—	288	1	**Rabat** - Morocco
—	287.6	2	**Salonika** - Greece
—	287.6	240	**Dresden (DDR)** - Germany
—	287		**Tbilisi** - USSR
1048	287	0.8	**R. Cadiz** - Spain
1052	285	0.05	**2 low power** - Astria
—	285	2	**Barnstaple** - Gt. Br.
—	285	120	**Start Point** - Gt. Br.
—	285.2	20	**Bucuresti II** - Rum.
—	285.1	50	**R. Tripoli** - Libya
—	285.1	20	**Suhl (DDR)** - Germ.
1061	282.8	1	**2 low power** - Port.
—	283	60	**Kalundborg II** - Denmark
—	282.8	20	**Cagliari I** - Italy
1070	280	100	**Paris II** - France
—	280	20	**Marseille II, Bordeaux II** - France
—	280	20	**Dnjepropetrovsk** - USSR
—	280	1	**Touggourt** - Algeria
1079	278	10	**R. Tanger Internat.**
—	278	2	**Minia** - Egypt
—	278	2	**Bremerhafen**, Germ.
—	278	60	**Katowice** - Poland
—	278.1	20	**Plauen (DDR)** - Germany
—	278	1/0.05	**8 low power** - Spain
—	278	5	**La Voz de Levante (REM)** - Spain
—	278	5	**La Voz de Guipuzcoa (REM)** - Spain
—	278	5	**La Voz de Vigo** - Sp.
1086	276	1	**Nicosia (FBS)** - Cyprus
1088	276	0.1/0.05	**5 low power**, Austr.
—	276	150	**Droitwich** - Gt. Br.
—	276	7.5	**Postwick** - Gt. Brit.
—	276	50	**Tirana** - Albania
1097	273.5	150	**Bratislava** - Czechoslovakia
1106	271.2	100	**Stutgart AFN** - Ger.
—	271.2	2/0.8	**3 low power** - Spain
—	271.2	100	**Mogilev** - USSR
—	271.2	100	**Vilnius II** - USSR
1115	269.1	50	**Bologna II** - Italy

kc/s	Metres	kW	Stations
1115	269.1	50	**Messina II** - Italy
—	269.1	50	**Trieste II** - Italy
—	269.1	50	**Aosta II** - Italy
—	269.1	40	**Bari II** - Italy
—	269.1	10	**Pisa II** - Italy
—	269.1	0.3/0.25	**5 low power** - Norw.
—	269.1	1	**Bergen II** - Norway
—	269	1	**Namsos** - Norway
—	269	1	**Notodden** - Norway
1124	267	3	**Barcelona EAJ15** - Spain X
—	267	0.1/0.05	**8 low power** - Austria Imst
—	266.9	20	**Leningrad III** - USSR
—	266.9	10	**Bruxelles IV** - Belgium
—	267	5	**Varna** - Bulgaria
1128	266	5	**Panamerican Radio** - Tangier
1133	264.8	2	**Bilbao** - Spain
—	265	135	**Zagreb I** - Yugosl.
1142	262.7	20	**Constantine I** - Alg.
—	262.7	20	**Les Trembles I** - Algeria
—	262.7	0.25/1	**5 low powers AFN** - Germany Kaiserslautern Schweinfurt
—	262.7	2	**Sohag** - Egypt
—	263	20	**Kaliningrad** - USSR
1151	261	100	**Lisnagarvey**, Gt. Br.
—	261	2/0.25	**2 stations** - Gt. Brit.
—	261	100	**Stagshaw** - Gt. Brit.
—	260.9	30	**Oradea** - Rumania
1160	259	100/150	**Strasbourg I**, Fr.
—	259.6	10	**M III** - Egypt
1169	256.6	1	**R. Renascenca** - Portugal
—	256.6	1	**Colomb Bishar** - Algeria
—	257	6	**Koper** - Yugoslavia
—	257	3	**Ulm (SDR)** - Germ.
—	257	8	**Heilbronn (SDR)** - Germany
—	257	150	**Kiev** - USSR
—	256.4	1	**Israel**
1178	254.7	100	**Hörby** - Sweden
—	254.6	2	**Assouan** - Egypt
—	254.7	5	**Cuena** - Spain
1186	253	0.06	**Megara** - Greece
1187	252.75	135	**Petöfi I** - Hungary
—	253	1	**Casablanca I** - Morocco
—	253	1	**Oujda** - Morocco
1196	251	150	**Munich (VOA)** - Germany
—	250.8	2	**Bernburg (DDR)** - Germany
1205	249	2	**Alexandria** - Egypt
—	248	0.5	**La Coruña (Juv.)** - Spain
—	249	100	**Bordeaux I** - France
—	249	10	**Haifa** - Israel
—	249	300	**Poznán** - Poland
1214	247	60	**Brookmans Park** - Gt. Britain
—	247	20	**Burghead** - Gt. Brit.
—	247	10	**Lisnagarvey** - Gt. B.
—	247	60	**Moorside Edge** - Gt. Britain
—	247	50	**Westerglen** - Gt. B.
—	247	2/03/0.25	**5 low power st.** - Gt. Britain
—	247	5	**Tallinn II** - USSR
—	247	20	**Kursk** - USSR
—	247	2	**Ponta Delgada**, Az.
1215	247	0.25	**Dharan (AFRS)** - S. Arabia
1223	245.3	20	**La Voz de Madrid (REM)** - Spain
—	245	20	**Stara Zagora** - Bulg.
—	245.3	100	**Falun** - Sweden
1232	243.5	50/120	**R. Tanger** - Tang.
—	243.5	100	**Bratislava** - Czech.
1236	242.7	0.05	**Sparta** - Greece
1241	242	25	**Vaasa** - Finland
—	242	20	**Lille II** - France

kc/s	Metres	kW	Stations
1241	242	20	**Lyon II** - France
—	242	20	**Nancy II** - France
—	242	20	**Nice III** - France
—	242	20	**Pau** - France
—	242	20	**Brest I** - France
—	242	20	**Rennes II** - France
—	242	20	**Tiraspol** - USSR
1250	240	5	**Dublin, Cork** - Eire
—	240	135	◦**Balatonszabadi** - Hungary
—	240	2/0.2	**6 low power** - Spain
1258	238	0.35	**R. Austurias** - Spain
1259	238.3	150	◦**Courier (VOA)** - Greece
—	238.3	5	**R. Valencia EAJ3** - Spain
—	238	50	◦**Wroclaw** - Poland
1268	236.6	100	◦**Novi Sad** - Yugosl.
1277	235	100	**Strasbourg II** - France
—	235	1	**Tel Aviv** - Israel
1286	233	100	◦**Praha II** - Czechosl.
—	233	2	**R. Renascenca** - Portugal
1295	231	100	◦**Norden Osterlog** - Germany (BBC European Sce)
—	231	1	**Rabat** - Morocco
—	231.7	2	**R. Coruña EAJ41** - Spain
1300	230.7	1	**Athens FBS** - Greece
—	230.7	0.8	**R. Juv. Algemesi** - Spain
1304	230	20	**Constantine II** - Alg.
—	230	20	**Les Trembles II** - Algeria
—	230	0.25/1	◦**5 low power AFN** - Germany
—	230	0.8	**R. Juv. de Almeria** - Spain
—	230	50	**Szczecin** - Poland
—	230	30	**Gdansk** - Poland
1307	229	0.8	**R. Juv. de Murcia** - Spain
1313	228.1	100	◦**Stavanger** - Norway
—	228.5	2/0.5	**R. Las Palmas** - Canary Isl.
—	228.5	0.05	◦**Kindberg** - Austria
—	228.5	2	**Alexandria** - Egypt
1320	237	30	**Zielona Góra** - Pol.
1322	226.9	0.15	**Angra do Heroismo** Azores
—	226.9	100	**Leipzig** - Germany (Rel. R. Moscow)
—	226.9	0.15	**R. Ribatejo** - Port.
1325	226.9	100	◦**Kharkov II** - USSR
1331	225.4	0.2/1	**6 low power (RAI)** - Italy
—	225.4	80	◦**Roma I** - Italy
—	225.4	50	**Genova I** - Italy
—	225.4	25	**Bologna I** - Italy
—	225.4	25	**Pescara I** - Italy
—	225.4	2	**R. Salamanca EAJ56** Spain
1336	224.6	1	**Haifa** - Israel
1340	224	10	**R. Teheran** - Iran
—	223.8	25	◦**Nyiregyháza**, Hung.
—	223.8	25	**Szombathely**, Hung.
—	223.8	15	**Pécs** - Hungary
—	223.8	0.4	**2 low power** - Hung.
—	224	150	◦**Crowborough**- Great Britain
1349	222	10	**Nantes I** - France
—	222	20	**Clermont** - France
—	222	20	**Limoges II** - France
—	222	20	**Grenoble I** - France
—	222	20	**Toulouse II** - France
—	222.4	20	**Valmiera** - USSR
—	222.4	20	**Kuldiga** - USSR
—	222.4	20	**Riga II** - USSR
—	222.4	0.5	**R. Juv. de Sabadell** - Spain
—	222	0.2	**Korça** - Albania
1358	221	1/0.1	**2 low power** - Port.
—	221	20	◦**Bremen** - Germany
1358	221	2/0.1	**10 low power**-Spain
—	221	5	**La Voz de Cataluna (REM)** - Spain
—	221	5	**La Voz de Navarra (REM)** - Spain
1360	220.6	0.8	**R. Juv. de Albacete** - Spain
1367	219.5	1/0.1	**10 low power** - Italy
—	219.5	5	**Venezia III** - Italy
—	219.5	12.5	**Napoli III** - Italy
—	219.5	5	**Milano III** - Italy
—	219.5	5	**Roma III** - Italy
—	219.5	5	**Torino III** - Italy
—	219.5	5	**Thorshavn**, Faraoe I.
—	219.5	26	**Torun** - Poland
—	219.5	0.5	**Basel, Coire, Savièse, Sool** - Switzerl.
—	219.5	1	**Porto II** - Portugal
—	219.5	0.5	**R. Juv. de Guadalajara** - Spain
1375	218	2	**R. Zamora EAJ72** - Spain
1376	218	150	◦**Lille I** - France
1385	217	150	◦**Kaunas** - USSR
—	217	50	**Athens II** - Greece
—	217	1.25	**Amalias** - Greece
—	217	1/0.01	**10 low power**-Spain
—	217	5	**R. Oviedo** - Spain
1388	216	0.4	**R. Juv. Malaga**, Sp.
1390	215.8	1	**Jerusalem** - Israel
—	215.8	2	**R. Juv. de Zaragoza** Spain
1392	215.2	0.8	**R. Juv. de Menorca** Spain
1394	215.2	25	◦**Graz I** - Austria
—	215.2	0.05	**Bad Ischl** - Austria
—	215.2	0.25	**Bitburg AFN** - Ger.
—	215.2	2/0.5	**12 low power**-Swed.
1403	213.8	1/0.4	**2 low power** - Spain
—	213.8	10	**Montpellier I** - France
—	213.8	20	**Rouen** - France
—	213.8	20	◦~~**Nice II**~~ - France
—	213.8	20	**Brest II** - France
—	213.8	5	**Comotini** - Greece
—	213.8	20	**Tartu** - USSR
1412	212.4	3	**Bad Mergentheim (SDR)** - Germany
—	212.5	2	**2 low power** - Spain
—	212	5	**Maribor** - Yugosl.
—	212	20	**Pristina** - Yugosl.
—	212	50	**Split** - Yugoslavia
—	212	0.4	**R. Club Tenerife** - Canary Isl.
1415	212	0.1	**R. Juv. de Ayamonte**, Spain
1420	211	7.5	**Benghazi (FBS)** - Libya
1421	211.2	0.05	**Sfax I** - Tunisia
—	211.1	5	**Tjernigov** - USSR
—	211.1	100	◦**R. Saarbrücken** - Saar
—	211.1	1	**Tampere** - Finland
—	211.1	40	**Alger III** - Algeria
1425	210.5	0.05	**Radstadt** - Austria
1429	210	1	**R. Juv. de Compo de Gibraltar** - Spain
1430	210	10	**Copenhagen II** - Denmark
—	210	5	**R. Mallorca EAJ13** - Spain
—	219	70	**Skive** - Denmark
—	210	0.5	**Korça** - Albania
1439	208	350	◦**Luxembourg II** - Luxembourg
1448	207.2	20	◦**Torino II** - Italy
—	207.2	10	**Palermo** - Italy
—	207.2	5	**Ancona II** - Italy
—	207.2	5	**Catania II** - Italy
—	207.2	5	**Firenze II** - Italy
—	207.2	5	**S. Remo** - Italy
—	207.2	1/0.25	**25 low power** - Italy
—	207.2	2	**5 low power** - Spain
—	207.2	2/0.2	**5 low power** - Swed.
1449	207	5	**Amman** - Jordan
1450	207	2/0.8	**2 low power** - Spain
1457	206	0.05	**3 low power**-Austria
—	206	2	**Redruth** - Gt. Brit.
—	206	20	**Clevedon** - Gt. Brit.
—	206	10	**Bartley** - Gt. Brit.
—	206	2	**Brighton** - Gt. Brit.
—	206	1	**Folkestone** - Gt. Br-
—	206	2	**Bexhill** - Gt. Brit.
—	205.9	20	**Craiova** - Rumania
1466	205	400	◦**Monte Carlo** - Mon.
—	204.6	0.25	**Sandnessjöen**, Norw.
—	204.6	0.25	**Geilo** - Norway
—	204.6	1	**Narvik** - Norway
—	204.6	0.25	**Odda** - Norway
—	204.6	1	**Porsgrunn** - Norw.
—	204.6	1	**Svalbard** - Norway
1475	203.4	2	**2 low power** - Spain
—	203	25	◦**Wien I** - Austria
1480	203.4	0.2	**R. Juv. Rodrigo**, Sp.
1484	202.2	0.2	**St. Pölten** - Austria
—	202.2	0.2	**Bone** - Algeria
—	202	2	◦**Copenhagen I**, Den.
—	202	0.25	**Alborg** - Denmark
—	202	0.25	**Tonder** - Denmark
—	202	1	**Helsinki II** - Finl.
—	202	1	**Pietarssaari** - Finl.
—	202	1	**Pori** - Finland
—	202	0.2	**Tammissaari** - Finl.
—	202	1/0.05	**9 low power**-France
—	202	0.2	**Turku II** - Finland
—	202.2	5	**Brasov** - Rumania
—	202.2	0.1	**Portalegre** - Portug.
—	202	2	**Barrow** - Gt. Britain
—	202	2	**Ramsgate** - Gt. Brit.
—	202	2	**Cardiff** - Gt. Britain
—	202.2	0.3	**Volos** - Greece
—	202.2	5	**Freies Berlin**, Germ.
—	202.2	0.2	**11 low power (SDR)** Germany
—	202.2	0.25	**Keflavik (AFRS)** - Iceland
—	202.2	2/0.04	**13 low power** - Italy
—	202.1	1	**R. Club de Madeira** Madeira
—	202.2	0.25/0.025	**4 low power** - Norw.
—	202.2	8	◦**Lodz** - Poland
—	202	1	**6 low power st.**, Pol.
—	202.2	1	**4 low power (BR.** - Germany
—	202.2	0.25/0.15	**13 low power**-Swed.
—	202.5	5	**Vatican Radio** -
—	202	2/0.5	**7 low power**, Yugosl.
—	202	2	**2 low power** - Spain
—	202	3	**Praha I, II, Bratislava** - Czechosl.
—	202	2	**Pavlovo** - Bulgaria
—	202.2	7.5	**Tripoli (FBS)** - Libya
—	202	2/0.35	**Benghazi** - Libya
—	202	0.2	**Turku II** - Finland
—	202	1	**Pori** - Finland
—	202	1	**Helsinki II** - Finl.
1487	202.1	2	**R. Rioga** - Spain
1490	201	0.8	**R. Alcoy** - Spain
1491	201.1	40	**Alger II** - Algeria
1493	201.1	2/0.2	**12 low power** - Sp.
—	201	1/0.05	**6 low power**, France
—	201	5	**Gomel** - USSR
—	201	5	**Rhodes** - Greece
—	201	0.35/0.05	**9 low power** - Austr.
1495	201	0.2	**R. Cadiz** - Spain
1500	200		**Angmagssalik** - Greenland
—	200	0.2	**AFRS** - Azores
—	200	0.8/0.2	**4 low power** - Spain
—	200	2	**R. Atlantico** - Canary Isl.
1502	199.7	0.25	◦**3 low power AFN** - Germany
—	199.6	60	**Krakow** - Poland
—	199.6	30	**Rzeszow** - Poland
—	199.7	0.8	◦**Münster (WDR)** - Germany
—	199.7	2	**3 low power** - Spain
1504	200.6	0.2	**R. Leon** - Spain
1510	198	1	**Tripoli (AFRS)** - Libya

kc/s	Metres	kW	Stations
1511	198	0.8/2	**2 low power** - Spain
—	198.5	20	∘**Bruxelles III** - Belg.
—	198.5	0.3	**Patras** - Greece
—	198.5	5	**Chania** - Greece
1512	198	0.1	**Port Lyauteau (AFRS)** - Morocco
1520	197.4	30	**Praha II** - Czechosl.
—	197.4	2/0.025	**12 low power** - Spain
—	197	5	**R. Teruel E.S. (REM)** - Spain
—	197.4	5	**Badajoz E. S. (REM)** - Spain
1529	196.2	1.5/0.06	**3 low power** - Swed.
—	196.2	100	∘**Vatican Radio**
1538	195	20	**Bad Dürrheim (SWF)** - Germany
—	195	40	∘**Ravensburg (SWF)**
—	195	10	**Reutlingen (SWF)** - Germany
1546	194	0.25/1	**13 synchr. low power** Gt. Britain
—	194	5	**Vinnitsa** - USSR
1554	193	60	∘**Nice I** - France
—	193.1	5	**Baranovitji** - USSR
1562	192	1	**Covilha** - Portugal
—	192.1	2/0.25	∘**8 low power** - Swed.

kc/s	Metres	kW	Stations
1570	191.1	10	**Flensburg (NDR)** - Germany
—	191.1	2/5	**Lingen (NDR)** - Germany
—	191.1	5	**Michelet** - Algeria
—	191	5	**R. Tarragona** - Spain
—	191.1		**Seelow (DDR)**, Ger.
—	191	0.25	**Iraklion (AFRS)** - Crete
—	191	0.25	**Dujarbakir (AFRS)** S. Arabia
1574	191	0.08	**Santa Maria** - Azores
1578	190.1		∘ **15 low power** - Italy
—	190.7	10	**Em. do Norte Reunidos** - Portugal
—	190.1	10	∘ **Fredriksstad** - Nor.
—	191.1	2	**Nordkapp** - Norway
1586	189.1	2/5	**Kiel (NDR)** - Germ.
—	189.1	5	**Osnabrück (NDR)** - Germany
—	189	5	∘**Bonn (WDR)**, Germ.
—	189	3	**Kleve (WDR)**, Ger.
—	189	40	**Hannover (NDR)** - Germany
—	189	40	**Oldenburg (NDR)** - Germany

kc/s	Metres	kW	Stations
1594	189	15	**Miskolc** - Hungary
—	189	0.4	**Magyaróvár** - Hung.
—	188.2	0.6	**Bougie** - Algeria
—	188	2	**Esbjerg** - Denmark
—	188	0.05/1	**2 low power** - France
—	188	5	**Hengelo** - Holland
—	188	5	**Hoogezand, Hulsberg** - Holland
—	188	1	**Em. Associados (Lisboa)** - Portugal
—	188	0.1	**4 AFRS** - Morocco
—	188		**Pan American R. Intercontinental** - Tangier
—	188	30	**Bialystok** - Poland
—	188	1	**Lublin** - Poland
—	188	0.15	**Funchal** - Madeira
—	188	0.15/0.075	**7 low power** - Swed.
—	188		**Pisa** - Italy
—	188		**Trieste** - Italy
1595	188	0.8	**R. Juv. de Baza**, Sp.
1602	187	20/40	**Nürnberg I (BR)** - Germany
—	187	20	**Landau (BR)** - Ger.
—	187	20	**Kirchheim (BR)**, G.
—	187	1	**Hof (BR)** - Germ.

SHORT WAVE STATIONS OF THE WORLD

Moscow frequencies are omitted from the list as they are changed very often. All the Moscow frequencies reported are shown in the USSR. text – * Standard Frequency Station ** Time Signal Station.

kc/s	m	kW	Call	Stations and countries	Rem.
2330	128.7	0.3	YDI	Djember, Indonesia	
	128.7	1	YDM6	Sibolga, Indonesia	
2340	128.2	0.5	ZYV30	R. Dif. Brasileira, Brazil	
2350	127.6	1	YDW	Pontianak, Indonesia	
	127.6	0.1	YDJ3	Jogjakarta, Indonesia	
2360	127.1	1	YVQG	R. Carupano, Venezuela	
2370	126.5	1	YDI3	Surabaya, Indonesia	
2390	125.5	0.1	YDN	Kotaradja, Indonesia	
	125.5	1	YDA6	Tjirebon, Indonesia	
2420	123.9	0.25	YDA2	Bandung, Indonesia	
	123.9	1	YDU7	Denpasar, Indonesia	
2430	123.5	1	YDK2	Palembang, Indonesia	
2440	122.9	1	YDG2	Surakarta, Indonesia	
	122.9	1	HI3C	La Romana, Dom. Rep.	
	122.9	1	YVLG	R. Girardot, Venezuela	
2442	122.9	0.5	4XB51	Tel Aviv, Israel	
2460	121.9	1	YDB	Djakarta, Indonesia	
	121.9	1	YDZ	Ternate, Indonesia	
	122	0.1	ZYR99	Emissora Cacique, Brazil	
2470	121.5	1	YVNI	R. Carora, Venezuela	
2475	121.2	0.5		R. Angkatan Udara, Indo	
2480	120.9	0.3	YDL2	Padang, Indonesia	
	121	0.1	ZYR60	Araraquara, Brazil	
2490	120.5	1	YDH	Semarang, Indonesia	
	120.5	0.3	YDQ4	Makassar, Indonesia	
*2500	120	0.5	MSF	Teddington, Gt. Britain	
*	120	1	WWV	Lanham, USA	
*	120	2	JJY	Tokyo, Japan	**
	120	0.035	ZLFS	Lower Hutt, New Zealand	
*	120	2	LOL	B. Aires, Argentina	
*	120		HBN	Neuenburg, Switzerland	
2510	119.5	10	HLK50	Seoul, Korea	
2695	111	0.25		Ft. Buckner, Okinawa	
2720	110.3	0.3		Seoul (VUNC), S. Korea	
2850	105.3			Pyongyang, Korea	
3145	95.38	1		Andorradio, Andorra	
3187	94.14			Baku, USSR	
3202	93.69	2		Bangkok, Thailand	
3205	93.60	0.15	YDA	Bandung, Indonesia	
	93.60	25		Simla, India	
3210	93.46	1		R. Comayaguela, Hond. R.	
3214	93.34	1	YDS	Menado, Indonesia	
3215	93.30	3.5	BED59	Taipei (BBC), Taiwan	
3221	93.13	7.5	CR7BW	R. Clube de Mozambique	
3223	9309.	1	YDX	Tdj. Penang, Indonesia	
3225	93.02			Hunan, China	
3232	92.82	0.3	YDM	Bukittinggi, Indonesia	
3240	92.59	0.5	OBX4V	R. America, Peru	
3241	92.56	1	YDR3	Ambon, Indonesia	

kc/s	m	kW	Call	Stations and countries	Rem.
	92.56	1	YDM7	Sibolga, Indonesia	
3245	92.45	1	YVKT	R. Libertador, Venezuela	
	92.44	0.5	HI1Z	Broadc. Nac., Dom. Rep.	
3250	92.31	10	HJGO	R. Sutatenza, Colombia	
	92.31	0.5	YDO	Bandjarmasin, Indonesia	
	92.31	7.5	CR7BM	R. Clube de Mozambique	
3255	92.15	2	ZFY	R. Demerara, Br. Guiana	
	92.15	0.5	YVQL	La Voz de El Tigre, Venez.	
	92.15	0.3	CR7IC	Beira, Mozambique	
	92.17	0.5	ZYR62	R. Clube de Marilia, Brazil	
	92.16	0.04		R. Antigua, Leeward Isl.	
3259	92.05	0.3	YDV	Kupang, Indonesia	
	92.30	0,5	HRLP3	R. America, Hond. R.	
3260	92.02			Kweichow, China	
3265	91.87	1	YVOC	Ecos del Torbes, Venezuela	
	91.87	2	ZYR92	R. Ribeirao, Brazil	
	91.87	1	ZYK21	R. Tamandaré, Brazil	
3270	91.74			Heilungkiang, China	
3275	91.60	1	YVMC	R. Mara, Venezuela	
	91.60	1	ZYR31	Bauru R. Clube, Brazil	
3277	91.55	1	YDD	Djakarta, Indonesia	
	91.55	0.3	DYB4	Dumaguete City, Philipp.	
3285	91.32	1	HI7T	La Voz Dominic., Dom. Rep.	
	91.32	1	ZYR89	R. Aparecida, Brazil	
3286	91.26	0.3	YDG	Madiun, Indonesia	
3290	91.19	1	HRTV2	Un. R. Hondurena, Hond. R.	
	91.90	0,3	OAX6E	R. Continental, Peru	
3295	91.00	1	YDY	Samarinda, Indonesia	
	91.00	0.7	YVOG	R. Trujillo, Venezuela	
3297	91.00	16	YIH32	Baghdad, Iraq	
3300	90.85	5		Belize, Honduras (Br.)	
	90.91	0.35	OBX4Y	R. Junin, Peru	
3305	90.77	1	DZCA	NCDA, Philipp.	
	90.77	5	YDG	Surakarta, Indonesia	
	90.77	3	YVKX	La Voz de la Patria, Venez.	
	90.77	1	HI5N	Ci. Trujillo, Dom. Rep.	
3315	90.50	0.5	ZYV29	R. Itatiaia, Brazil	
	90.50	1	YVLI	R. Maracay, Venezuela	
3316	90.47	20		Paradys, So. Africa	
	90.46	5		Freetown, Sierra Leone	
3320	90.36	0.5	HRQ2	R. Suyapa, Hond. Rep.	
3322	90.31	0.25	4VU	Cayes, Haiti	
3325	90.23	0.25	HCGB1	R. Nac. Espejo, Ecuador	
	90.23	0.6	YVRA	R. Monagas, Venezuela	
	90.23	1	ZYJ21	R. Borborema, Brazil	
3326	90.20	7.5		Kaduna, Nigeria	
**3330	90.09	0.3	CHU	Dominion Observat., Canada	
	90.09	0.5	OAX1M	R. Progreso, Peru	
3335	89.95	0.5	ZYR59	A Voz do Sertao, Brazil	

kc/s	m	kW	Call	Stations and countries	Rem.
3335	89.95	0.5	YVQC	Ecos del Oriñoco, Venezuela	
3345	89.69	0.2	HI2S	Onda Musical, Dom. Rep.	
	89.69	2	YVKP	R. Tropical, Venezuela	
	89.68	2	DZB2	Call of Orient, Philipp.	
	89.69	1	YDW2	Pontianak, Indonesia	
3350	89.55	0.3	OAX5J	R. Independencia, Peru	
	89.95	0'5	HRVW2	LaVoz de Cent. Am., Hond.R.	
3355	89.42	0.3	YD120	Sumenep, Indonesia	
	89.42	1	YVLC	R. Valencia, Venezuela	
	89.42	0.5	HI3H	La Voz de la Alégria, Dom. R.	
	89.42	0.09	TGZB	R. Oriental, Guatemala	
3356	89.42	20		Paradys, So. Africa	
3365	89.15	0.5	ZYS44	R. Dif. Paraná, Brazil	
	89.15	5		Grenada, Windward Isl.	
	89.15	1	DZDA	NCDA, Philipp.	
3366	89.12	20		Accra, Ghana	
3375	88.89	0.2	HC4VL	R. Alejo Lascano, Ecuador	
	88.89	1	ZYK28	R. Olinda Pernamb., Brazil	
	88.89	0.5	HI8V	La Vega, Dom. Rep.	
	88.89	0.6	YVMI	La Voz de la Fé, Venezuela	
	88.89	1	HROW2	R. Montserrat, Hond. R.	
	88.89	7.5	YDB4	Djakarta, Indonesia	
3376	88.89	20		Paradys, So. Africa	
3380	88.76	1.5		St. Denis, Reunion	
3385	88.63	0.25	HCJP4	Ondas Manabitas, Ecuador	
	88.63	1	YVQI	Emis. Unidas, Venezuela	
	88.63	1	ZYA41	R. Eldorado, Brazil	
	88.63	1	YVLE	R. Puerto Cabello, Venez.	
3386	88.50	4		R. Tanannarive, Madagascar.	
3390	88.50	0.25	OQ2AC	R. College, Belg. Congo	
	88.50	1	HRNQ2	R. Monazan, Hond. R.	
3392	88.45	1	HI2D	Santiago, Dom. Rep.	
3395	88.37	1	YDP2	Medan, Indonesia	
	88.37	0.5		R. Sorong, Neth. New Guinea	
	88.37	1	YVOJ	R. Universidad, Venezuela	
3396	88.36	15		Salisbury, Rhodesia	
3406	88.08	7.5		R. Clube de Mozambique	
3410	87.97	1		R. Cabimas, Venezuela	
3603	80.47	0.75	CR6RK	R. Clube do Sul Angola	
3765	79.68	0.3		Seoul (VUNC), S. Korea	
3780	79.35	100		R. Iran, Iran	
3800	78.95	0.25		Tokyo (FEN), Japan	
3900	76.92			Silinkoulehmeng, China	
3910	76.73	0.4		Seoul (VUNC), S. Korea	
	76.73	3	HLK51	Seoul, Korea	
3914	76.60	2.5	ZQP	Lusaka, Rhodesia	
3915	76.63	15/120		Peking, China	
	76.64	5	YDZ2	Ternate, Indonesia	
3925	76.43	10	JOZ	Tokyo, Japan	
3945	76.24	1	YDH2	Semarang, Indonesia	
3940	76.15	2.5	ZBW3	R. Hong Kong, Hong Kong	
	7615			Hupei, China	
3945	76.05	0.5	DXB3	Cotabato, Philipp.	
	76.05	0.3	HCDY4	R. Iris, Ecuador	
	76.05	1	YDU2	Denpasar, Indonesia	
3952	75.90	15/100	MCM	BBC, Gt. Britain	
	75.90	0.375	CR7RA	R. Pax, Mozambique	
3955	75.85	0.3	HCLR5	La Voz de Alausi, Ecuador	
3958	75.78	0.5		Stanley, Falkland Isl.	
	75.78	0.2	HCJC5	La Voz de Salcedo, Ecuador	
3960	75.76	5	CR4AA	R. Cl. Cabo Verde, C. Verde I	
	75.76	15/120		Peking, China	
	75.76	1	CR4AC	R. Barlavento, Cape Verde Isl.	
	75.76	10/100		R. Free Europe, Germany	
	75.76	0.3	YDL	Padang, Indonesia	
	75.75	1	YDT	Soa Siu, Indonesia	
	75.76	0.2	HCJJ2	Ecos del Agro, Ecuador	
3965	75.67	2.5		Enugu, Nigeria	
	75.67	10/100		Allouis, France	
	75.67	0.2	HC1JH	R. Turismo, Ecuador	
3970	75.57	5		NDR, Germany	
	75.57	0.2	HCHV4	La Voz del Pueblo, Ecuador	
3974	75.48	1	CMQ	Emis. da Guiné, Port. Guiné	
3975	75.47	15/100	GRC	BBC, London, Gt. Britain	
	75.48	5	YDI2	Surabaja, Indonesia	
3980	75.38	0.5	VRH4	Suva, Fiji Islands	
3985	75.28	15/120		Peking, China	
3990	75.19	20/50		R. Liberation, Germany	
	75.19	0.25	HCJA5	R. Atenas, Ecuador	
3995	75.09			Roma, Italy	
	75.09	5		Ibadan, Nigeria	
	75.09	0.2	HCGB4	R. Nac. Espejo, Ecuador	
4000	75.00			Payinchaoyuanmeng, China	
4009	74.83			Frunze, USSR	
4068	73.75			Inner Mongolia, China	
4080	73.53	0.2	HCAO5	Voz del Tomebamba, Ecuad.	
4220	71.09			Sinkiang, China	
4235	70.84			Ashkhabad, USSR	
4273	70.21			Khabarovsk, USSR	
4310	69.61			Chimkent, USSR	
4486	66.88			Ufa, USSR	
4500	66.67			Sinkiang, China	
4500	66.67	0.2	HCHG2	Emis. Central, Ecuador	
4540	66.08			Tbilisi, USSR	
4559	65.80			Gorkij, USSR	
4620	64.94	0.25	HCAU2	R. Atalaya, Ecuador	
4625	64.86			Alma-Ata, USSR	
4635	64.72			Stalinabad, USSR	
	64.72			Yuzhno Sakhalinsk, USSR	
4650	64.52	1	HCAJ2	R. Dif. del Ecuador, Ecuador	
4680	64.10	5	HCGB1	R. Nac. Espejo, Ecuador	
4700	63.83	0.2	HCMX4	R. Cenit, Ecuador	
4710	63.78	0.25	HCGI2	R. El Telegrafo, Ecuador	
4725	63.60	0.2	HCRM3	R. Cultural de Machala, Ecud.	
4735	63.36	2	ZYF23	R. Dif. do Maranhao, Brazil	
4740	63.23	1	YSC	Ondas Populares, El Salvador	
	63.23	0,25	HCIM1	La Voz de Imbabura, Ecuador	
				4750–5060 kc/s – 60 metre band	
4750	63.15	0.25	HCSV5	R. Amazonas, Ecuador	
	63.16	3	YDQ	Makassar, Indonesia	
4755	63.10	0.3	HCLJ6	Voz de Bolivar, Ecuador	
	63.10	1	ZYY3	R. Brazil, Brazil	
	63.09	0.06	CR4AB	R. Cl. Mindelo, Cape Verde	
4760	63.03	0.5	YVKV	Emis. Vargas, Venezuela	
	63.03	0.25	HCFA4	Voz de Manabi, Ecuador	
	63.03	7.5		R. Congo Belge, Belg. Congo	
	63.03	2.5		AIR, Simla, India	
4765	62.95	3	HJEP	R. Dif. Occidente, Colombia	
	62.97	5		R. Somali, Somaliland (Br.)	
4770	62.89	0.3	OAX2G	R. Cajamarca, Peru	
	62.89	1	CR6RG	R. Diamang, Angola	
	62.89	0.3	YVNW	Ondas del Caribe, Venezuela	
	62.89			Sinkiang, China	
	62.89	10		ELWA, Liberia	
	62.89	1	HSQ	Bangkok, Thailand	
4775	62.84	5	ZYH29	R. Dragao do Mar, Brazil	
	62.83			AIR, Gauhati, India	
4780	62.76	1	YVLA	Voz de Carabobo, Venezuela	
	62.76	0.2	HCLC1	R. Atahualpa, Ecuador	
	62.76	1		R. Djibouti, Fr. Somaliland	
	62.76	1	YSU	R. Mil Cincuenta, El Salvador	
	62.76	0.2	HCDF4	La Voz de Chone, Ecuador	
	62.76	5	HJAB	Emis. Unidas, Colombia.	
4785	62.70	2	ZYM8	R. Ribamar, Brazil	
	62.70	0.5	ZYY20	R. Dif. do Guapore, Brazil	
4789	62.65	0.25	HCAS4	Voz de los Caras, Ecuador	
4790	62.63	5	YVQN	Ondas Porteñas ,Venezuela	
4795	62.57			Hanoi, N. Vietnam	
	62.54	0.25		R. Zanzibar	
	62.54	10	HJTB	"R. Militar", Colombia	
	62.57	4		R. AEF, Fr. Equatorial Afr.	
	62.54	50	XZK2	Rangoon, Burma	
4800	62.50	1	YSDR	R. Tropical, Salvador	
	62.50	0.3	HCHV4	La Voz de Jipijapa, Ecuador	
	62.50	7.5	YVME	Ondas del Lago, Venezuela	
	62.50	0.5		R. Goa, Goa	
4804	62.45	1		R. Cl. de Sao Tomé, S. Tomé	
	62.45	0.5	ZHW6	Kisumu, Kenya	
4805	62.43	1	ZYS8	R. Dif. do Amazonas, Brazil	
	62.42	7.5	YDB2	Djakarta, Indonesia	
4807	62.41	1		Lahore, Pakistan	
4810	62.37	1	YVNG	R. Popular, Venezuela	
	62.37	0.25	HCRC3	R. Coro S.ta. Cecilia, Ecuad.	
	62.37	20		Paradys, So. Africa	
4815	62.31	1	ZYP33	Petropolis, R. Dif., Brazil	
	62.31	1.5	HC4DC	R. Cenit, Ecuador	
	62.31	1	ZYH21	R. Icarema de Fortaleza, Brz.	
	62.31	1	HRNQ3	R. Morazan, Hond., R.	
4820	62.24	1	YVRC	Voz de Apure, Venezuela	
	62.24	5	YSABC	R. Emis. Salvadoreña, El Salv.	
	62.24	0.2	XEJG	Guadalajara, Mexico	
4824	62.18	6/0.2	CR6RB	R. Eclesia, Angola	
4825	62.18	0.5	ZYV55	Soc. R. Cl. de Varginha, Brz.	
	62.18	1	HJHC	R. Nariño, Colombia	
	62.18	0.5	ZYE7	Parnaiba, Brazil	
4826	62.16	15	ZQP	Lusaka, Rhodesia	
4830	62.11	5	YVOA	Voz del Tachira, Venezuela	
	62.10	1	HSK	R. Thailand, Thailand	
4835	62.05	1	HJKE	R. Continental, Colombia	
	62.05	2.5	ZYV37	R. Soc. Triangulo, Brazil	
	62.05	4		Bamako, Fr. Sudan	
4840	61.98	1	YDU	Singaradja, Indonesia	
	61.98	1	YVOI	R. Valera, Venezuela	

kc/s	m	kW	Call	Stations and countries	Rem.
	61.98	0.5	YSCB	La Voz del Pacifico, El Salv.	
	61.98	7.5	CR7BV	R. Clube de Mozambique	
	61.98	0.25		AIR, Bhopal, India	
4845	61.92	1	ZYU8	R. Dif. de Teresina, Brazil	
	61.92	1	HJGF	R. Bucaramanga, Colombia	
4850	61.86	1	YVNS	R. Universo, Venezuela	
	61.86	0.35	PZH5	Paramaribo, Surinam	
	61.86	0.25	HCCV3	Ond. del Zamora, Ecuador	
	61.86	0.25		AIR, Ranchi, India	
4851	61.84	1	CR6RD	Nova Lisboa, Angola	
4855	61.79	0.25	CP39	R. Cobija, Bolivia	
	61.79	1	HJFV	R. Neiva, Colombia	
	61.79	1	YDK	Palembang, Indonesia	
	61.79	7	VQ7LO	Nairobi, Kenya	
	61.79	1	ZYR61	R. Dif. Taubaté, Brazil	
4860	61.73	0.3	OXC4B	R. El Pueblo, Peru	
	61.73	1	YVPA	R. Yaracuy, Venezuela	
	61.73	1		R. Kashmir, India	
	61.73	5		Kuching, Sarawak	
	61.73	0.25		Nampula, Mozambique	
4865	61.66	1	CSA97	Ponta Delgada, Azores	
	61.66	1	HJFA	Voz de Pereira, Colombia	
	61.66	1	YDR	Ambon, Indonesia	
	61.66	2	PRC5	R. Clube do Para, Brazil	
4869	61.60	1	CR6RN	R. Clube de Angola, Angola	
4870	61.60	7.5		Colombo, Ceylon	
	61.60	0.25	HCDR4	R. Miramar, Ecuador	
	61.60	4		R. Cotonou, Dahomey	
4875	61.54	1	HJBG	La Voz del Norte, Colombia	
	61.54	0.3		Beira, Mozambique	
	61.54		ZYZ30	R. Jornal do Brazil, Brazil	
	61.54	5	YDG3	Surakarta, Indonesia	
	61.54	0.25	HI5C	La Voz del Progreso, Dom. Rep.	
4880	61.48	7.5	YVKF	Ond. Populares, Venezuela	
	61.48	0.75	OCX4E	R. 1160, Peru	
	61.48	0.25		Zambezia, Mozambique	
	61.48			AIR, Lucknow, India	
4885	61.41	7	VQ7LO	Nairobi, Kenya	
	61.41	1	ZYV50	Pocos de Caldas, Brazil	
4890	61.35	5	YVKB	R. Dif. Venezuela, Venez.	
	61.35	3	HC1MJ	R. Gran Colombia, Ecuador	
	61.35	0.5	HI5B	Santiago, Dom. Rep.	
4893	61.32	4		Dakar, Fr. W. Africa	
4895	61.29	20		Paradys, So. Africa	
	61.29	0.25	PRF6	R. Baré, Brazil	
	61.29	5	HJCH	Voz de la Victor, Colombia	
4897	61.25	10	VLX4	Perth, Australia	
4898	61.24	1	HJAG	R. Atlantico, Colombia	
4900	61.22	10		Colombo, Ceylon	
	61.22	1	YVQE	R. Bolivar, Venezuela	
	61.22	0.02	TGLAB	R. Victoria, Guatemala	
4904	61.18	4		R. Tchad, Fr. Equat. Africa	
4905	61.16	1	ZYZ22	R. Relogio Federal, Brazil	
	61.16	0.5	HRQN3	Voz del Atlantico, Hond. R.	
4910	61.10	10/50		Karachi, Pakistan	
	61.10	4		Conakry, Guinea (Rep.)	
	61.10	0.5	HI9B	Santiago, Dom. Rep.	
	61.10	0.2	HCAR1	Voz del Montufar, Ecuador	
4911	61.08	10		Lusaka, Rhodesia	
4915	61.04	1	HJEQ	Voz del Cauca, Colombia	
	61.04	5		Accra, Ghana	
	61.04	1.5	ZYE2	R. Dif. de Macapa, Brazil	
4920	60.98	10	VLM4	Brisbane, Australia	
	60.98	7.5	YVKR	R. Caracas, Venezuela	
	60.98	0.2	HCJX6	R. Cult. Religiosa, Ecuador	
	60.98	5	YDX2	Tdj. Pinang, Indonesia	
	60.98	10/100	VUM	AIR, Madras, India	
4923	60.94	1	HC1QR	R. Quito, Ecuador	
4924	60.92	0.06	CR6RR	R. Cassanguidi, Angola	
4925	60.90	10	ZYA36	R. Industrial, Brazil	
	60.91	7.5	CR7BU	R. Clube de Mozambique	
4930	60.85	7.5	YDP	Medan, Indonesia	
	60.85	1	HCRCE	R. Casa de la Cultura, Ecua.	
	60.85	0.5	HRTP3	La Voz de Olancho, Hond. R.	
4934	60.80	7.5	ZHW2	Nairobi, Kenya	
4935	60.80	10	ZYI21	R. Poti, Brazil	
	60.80	1	HJLF	Ondas de Ibague, Colombia	
4940	60.73	2	YVMO	R. Occidental, Venezuela	
	60.73	20/100		AIR, Delhi, India	
	60.73			AIR, Gauhati, India	
	60.73	10		R. Abidjan, Ivory Coast	
	60.73			Kiev, USSR	
	60.72	7.5		R. Ceylon, Ceylon	
4941	60.72	0.06	CR6RS	R. Maludi, Angola	
4945	60.67	1	HJCO	Emis. Sur. America, Colomb.	
	60.67	0.15	YDA3	Bandung, Indonesia	
	60.67	20		Paradys, So. Africa	
	60.67	0.25	DZB6	Nat. Teachers College, Philip.	
4950	60.60	1	YVMM	R. Coro, Venezuela	
	60.60	4		Dakar, Sénégal	
	60.60	7.5		Kuching, Sarawak	
4955	60.54	3	CR6RZ	R. Angola, Angola	
	60.54	10	HJCA	R. Televisora Nac., Colombia	
	60.54			Alma Ata, USSR	
	60.54	0.5	HRTW3	Un. R. Hond. Hond R.	
4956	60.53			Blagoveshchensk, USSR	
4958	60.51	2		Baku, USSR	
4960	60.48	20/100	VUD	AIR, Delhi, India	
	60.48			Heilungkiang, China	
	60.48	1	YVQA	R. Sucre, Venezuela	
	60.48	0.25	HCDC2	R. Cenit, Ecuador	
4965	60.42	1	ZYP27	R. Copacabana, Brazil	
	60.42	5	HJAF	Emis. Fuentes, Colombia	
	60.42	0.35	ZK1ZA	R. Rarotonga, Cook Isl.	
4970	60.36	10	YVLK	R. Rumbos, Venezuela	
	60.36	7.5		Colombo, Ceylon	
	60.36	0.2	HCMD2	Voz de la Peninsula, Ecuad.	
	60.36	5	VQA82	R. Sabah, Borneo	
4972	60.34			Alma Ata, USSR	
4975	60.30	4		R. Yaounde, Cameroon (Fr.)	
	60.30	5	ZYY9	R. Timbira, Brazil	
4977	60.28	0.06	CR6RI	R. Andrade, Angola	
4980	60.25	0.25	OQ2AC	R. College, Belgian Congo	
	60.25	3	OQ2AD	UFAC, Belgian Congo	
	60.25	1	HI3K	Ondas del Yaque, Dom. Rep.	
	60.25	2	HCJC5	Ondas Azuayas, Ecuador	
	60.25			Fukien, China	
4985	60.18	1	YDN2	Kotaradja, Indonesia	
	60.18	1	ZYZ5	A Voz do Este, Brazil	
	60.18	0.5	ZHW4	Mombasa, Kenya	
	60.18	5		R. Tananarive, Madagascar	
4988	60.14			AIR, Hyderabad, India	
4990	60.12	0.04	ZCQ3	Victoria, Seychelles	
	60.12	15	YVMQ	R. Barquisimeto, Venezuela	
	60.12			Hunan, China	
	60.12	20		Lagos, Nigeria	
4995	60.06	2	ZYY2	R. Brazil Central, Brazil	
4996	60.05			Magadan, USSR	
4997	60.04			Ivanovo, USSR	
*5000	60.00	0.5	MSF	Teddington, Gt. Britain	
*	60.00	2	WWVH	Puunene, Hawaii	
	60.00	1		Kuwait, Kuwait	
*	60.00	10	WWV	Washington, USA	
*	60.00	2	JJY	Tokyo, Japan	
*	60.00	2	LOL	Buenos Aires, Argentina	
*	60.00		HBN	Neuenburg, Switzerland	
5008	59.92	6		Khartoum, Sudan	
5010	59.88	7.5		FBS, Singapore	
	59.88	1	OAX5O	R. Pisco, Peru	
	59.88	5		Grenada, Windward Isl.	
	59.88	1		R. Garoüa, Cameroon	
	59.88	0.25	HCRP1	R. Catolica, Ecuador	
5015	59.82			Vladivostok, USSR	
	59.82	10	PRH8	R. Maua, Brazil	
	59.82	0.25	HCBK2	R. El Mundo, Ecuador	
	59.82	0.25	HCCB5	Voz de Azogues, Ecuador	
5016	59.83	4	FIQA	R. Tananarive, Madagascar	
5020	59.76	1		Colombo, Ceylon	
	59.76	1	HJFW	Transm. Caldas, Colombia	
	59.76	4		R. Niger, Niger	
	59.76	3	YVKO	R. Dif. Nacional, Venezuela	
	59.76	0.4	4VGS	R. Independence, Haiti	
	59.76			Hupei, China	
5024	59.71	0.4	CR6RH	Sa da Bandeira, Angola	
5025	59.70	0.25	HCAL5	R. Nueva Austral, Ecuador	
	59.69	7.5		Kampala, Uganda	
5030	59.64	0.2	HI8Z	R. Santiago, Dom. Rep.	
	59.64	7.5	YVKM	R. Continente, Venezuela	
	59.64	15/120		Peking, China	
5033	59.59	1	CR6AA	Lobito, Angola	
5035	59.57	1	ZYW22	R. Anhanguera, Brazil	
5036	59.57	4		R. Lomé, Togoland	
5040	59.52	0.225	4VPM	Port-de-Paix, Haiti	
	59.52	2		Tbilisi, USSR	
	59.52	2.5	YVMA	Ecos del Zulia, Venezuela	
	59.52	0.225	4VPM	Voix du Nord-Ouest, Haiti	
	59.52	1	HJDJ	R. Quibdo, Colombia	
5042	59.48	1	CR6RF	R. Cl. de Benguela, Angola	
5045	59.46	5		Biak, Neth. New Guinea	
	59.46	0.3		Beira, Mozambique	
	59.46	5	ZYP23	R. Quitandinha, Brazil	
	59.46	0.3		Beira, Mozambique	
5050	59.41	20		Dar-es-Salaam, Tanganyika	

kc/s	m	kW	Call	Stations and countries	Rem.
5050	59.41	5	YVKD	R. Cultura, Venezuela	
	59.41	0.2	HCET5	R. Roxi, Ecuador	
	59.41			Petropavlovsk, USSR	
5055	59.36	0.5	HI2L	Voz del Tropico, Dom. Rep.	
	59.36	1	ZYO23	R. Vitoria, Brazil	
	59.36	1	HJDW	Voz de Medellin, Colombia	
				5060 – 5950 kc/s	
5060	59.29	7.5	YDJ	Jogjakarta, Indonesia	
	59.29		4VRM	Voix des Gonaives, Haiti	
5065	59.23			Petrozavodsk, USSR	
5075	59.13	25	HJGC	R. Sutatenza, Colombia	
5125	58.54	15/120		Peking, China	
5195	57.75	0.3	HCGT6	R. Continental, Ecuador	
5220	57.47	15/120		Peking, China	
5225	57.42			Novosibirsk, USSR	
5230	57.36			Nicolayevsk, USSR	
5260	57.03			Alma Ata, USSR	
5290	56.71			Krasnoyarsk, USSR	
5510	54.45	0.2	HCNL2	Voz del Campesino, Ecuador	
5700	52.63	0.2		R. Cotacachi, Ecuador	
5700	52.63			Pyongyang, Korea	
5740	52.26			Erevan, USSR	
5750	52.18	0.5	CE8AA	S. Soc. Nac. de Agricult., Chile	
	52.18		4VCB	La Voix de Sud, Haiti	
5762	52.07			Alma Ata, USSR	
5182	51.84	1	HCIFA	R. Metropolitana, Ecuador	
5802	51.72	0.2	HCDF1	La Voz del Norte, Ecuador	
5810	51.63	0.25	YNRC	R. Cultural, Nicaragua	
5860	51.20	15/120		Peking, China	
5850	51.18	1	HRRN4	La Voz de Honduras, Hond. R.	
5880	51.02	15/120		Peking, China	
5900	50.84	0.25	ZNB	Mafeking, Bechuanaland	
5933	50.57	3		Elisabethville, Belg. Congo	
5940	50.51			Khabarovsk, USSR	
5933	50.51	7.5		Damascus, Un. Arab. Rep.	
5945	50.48	0.25	HCFM1	R. Equinoccial, Ecuador	
				5950–6200 kc/s – 49 meter band	
5950	50.42	3.5	BEC28	Taipei, Taiwan	
	50.42	120/240		Peking, China	
5952	50.40	5	TGNA	R. Cultural, Guatemala	
5955	50.38	10/100		◦ Allouis, France	
	50.38	0.25	OAX4P	R. Huancayo, Peru	
	50.38	7.5	ZYR76	R. Gazeta, Brazil	
	50.38	7.5/100		◦ Warsaw, Poland	
5957	50.36	0.5	RRA4	La Voz de Lempira, Hond. R.	
5960	50.34	100	CSA206	R. Nacional, Portugal	
	50.34	1	OAX7L	La Voz del Altiplano, Peru	
	50.34	5	VQO2	Honiara, Solomon Isl.	
	50.34	50/60/100		◦ R. Roma, Italy	
	50.34	10/100		R. Free Europe, Germany	
	50.34	0.5	BEC38	Taipei, Taiwan	
	50.34	0.6	HOL21	R. Hogar, Panama	
	50.34	1	HJCF	Voz de Bogota, Colombia	
	50.34	25		Dakar, Sénégal	
	50.34	1	TJQ	R. Casino, Costa Rica	
	50.34	120/240		Peking, China	
5965	50.28	10/100		Allouis, France	
	50.28	0.5	YNWW	R. Sport, Nicaragua	
	50.28	10	ZYU60	R. Guaiba, Brazil	
	50.28	1.5	BEC26	Tsoying, Taiwan	
5968	50.27	1		Sebaa-Aioun, Morocco	
5970	50.25	50	CKNA	R. Canada, Canada	
	50.25	7.5		Dacca, Pakistan	
	50.25	0.3	CBNX	St. John's, Canada	
	50.25	7.5	HI4T	La Voz Dominicana, Dom. R.	
	50.25	10/100		R. Free Europe, Germany	
	50.25	1	YDQ2	Bandjarmasin, Indonesia	
	50.25	10	OBX4Q	R. El Sol, Peru	
	50.25	3		R. Brazzaville, Fr. Equat.Afr.	
	50.25	0.5	TGLA	R. Victoria, Guatemala	
	50.25	0.2	HCJM1	R. Tulcán, Ecuador	
5972	50.22	25		◦ R. Andorra, Andorra	
	50.22	0.5	HRVW4	LaVoz de Centro Am.Hond.R.	
5975	50.21	15/100	MCP	BBC, London, Gt. Britain	
	50.21	10	CP5	R. Illimani, Bolivia	
	50.21	0.4	HCCD3	R. Fátima, Ecuador	
	50.21	7.5/100		◦ Warsaw, Poland	
5976	50.20	100	CSA78	R. Nacional, Portugal	
5979	50.18			Yakutsk, USSR	
5980	50.17	0.5	OBX4M	R. Panamericana, Peru	
	50.17	5	VQA52	Sabah, Borneo	
	50.17	1	TGAR	R. Quetzal, Guatemala	
	50.17	7.5		Dacca, Pakistan	
	50.17	10/50		Karachi, Pakistan	
	50.17	0.3	HCRT6	R. Paz y Bien, Ecuador	
5980	50.17	0.5/50	BED29	Taipei BCC, Taiwan	
	50.17	100	DMQ5	Deutsche Welle, Germany	
	50.17	10	HLK2	Seoul, Korea	
5981	50.16	2	ZFY	R. Demerara, Br. Guiana	
5985	50.13	1	LRS2	R. Splendid, Argentina	
	50.13	4	OEI30	◦ Kronstorf, Austria	
	50.13	10/100		R. Free Europe, Germany	
	50.13	1		Sanaah, Yemen	
	50.13	3	ZPA5	R. Encarnación, Paraguay	
	50.13	0.1	ZYT7	R. Guaruja, Brazil	
	50.13	7.5	4VB	R. Commerce, Haiti	
	50.13	0.2	HCJZ3	R. Trebol, Ecuador	
	50.13	120/240		Peking, China	
5990	50.08	15/100	MCU	BBC, London, Gt. Britain	
	50.08	0.3	HCGY6	R. Luz, Ecuador	
	50.08	50	CHAY	R. Canada, Canada	
	50.08	5	YDS2	Menado, Indonesia	
	50.08	10/50		Karachi, Pakistan	
	50.08	3	TGJA	R. Nuevo Mundo, Guatemala	
	50.08		OQ2AE	Luluabourg, Belgian Congo	
	50.08		PRL5	R. Dif. Educaçao, Brazil	
	50.08	0.25		AIR, Bhopal, India	
5995	50.04	1	YNDG	R. Colonial, Nicaragua	
	50.04	1	HRPL4	El Eco de Honduras, Hond. R.	
	50.04	0.5	OAX4V	R. America, Peru	
	50.04	3.5	BEC36	Taipei, Taiwan	
6000	50.00	0.4	OEI20	◦ Innsbruck, Austria	
	50.00	50		R. Nacional, Spain	
	50.00	1	DZH4	Voice of the Philippines	
	50.00	5	CXA2	R. Sur, Uruguay	
	50.00	0.25	TGTA	R. Sonora, Guatemala	
	50.00	5	PRK5	R. Inconfidencia, Brazil	
	50.00	0.3	YNB	R. Panamericana, Nicaragua	
	50.00	20	TAN	Ankara, Turkey	
	50.00	4		R. Djibouti, Fr. Somaliland	
6003	49.97	0.15	CSB56	Emisora Liceu, Portugal	
	49.97	0.5		Tripolis (FBS), Greece	
6004	49.96	7.5		Colombo, Ceylon	
6005	49.96	20		◦ Berlin, RIAS, Germany	
	49.96	1	HP5K	Voz de la Victor, Panama	
	49.96	0.5	HRQR	La Voz del Peublo, Honduras	
	49.96	3.5		R. Zanzibar	
	49.96	0.075		Montreal, Canada	
	49.95	1	CNR3	Sebaa-Aioun, Morocco	
	49.96			Kabul, Afghanistan	
6006	49.95	0.75	TIHB	R. Reloj, Costa Rica	
6010	49.92	1	CJCX	Sydney, Canada	
	49.92	5	CE601	Emisoras Norte, Chile	
	49.92	5	YSS	R. Nacional, El Salvador	
	49.92	15/100	GRB	BBC, London, Gt. Britain	
	49.92	50/60/100		◦ R. Roma, Italy	
	49.92	2.5	XEOI	Radio Mil, Mexico	
6015	49.88	10/100		R. Free Europe, Germany	
	49.88	10	PRA8	R. Cl. de Pernambuco, Brazil	
	49.88	20		Yamata (VUNC), Japan	
	49.88	1	HC4FX	R. Manta, Ecuador	
6018	49.84	10	HJCX	Voz de Colombia, Colombia	
	49.84	18		Salisbury, Rhodesia	
6020	49.83	40		Kiev, USSR	
	49.83	10/100		R. Free Europe, Germany	
	49.83	0.25	XEUW	El Eco de Sotavento, Mexico	
	49.83	1	OAX4Q	R. Victoria, Peru	
	49.83	1	TGDA	La Voz de Occidente, Guatem.	
	49.83			Komsomolsk, USSR	
	49.83			Khabarovsk, USSR	
	49.83	10	CE602	Diego Portales, Chile	
	49.83	1	HI8U	Broadc. Tropical, Dom. Rep.	
	49.83	10		◦ R. Nederland, Holland	
	49.83	50/200	KNBH	Dixon, USA	
6022	49.81	1	ELB	Monrovia, Liberia	
6025	49.79	10	ZYR63	R. Em. de Piratininga, Brazil	
	49.79	0.1	HI1J	Voz de Oriente, Dom. Rep.	
	49.79	1	ZPA10	R. Paraguay, Paraguay	
	49.79	100		◦ R. Nederland, Holland	
	49.79	5		Kajang, Malaya	
	49.79	5/10	CR8AB	R. Goa, Goa	
	49.79	100	OLR2F	◦ Praha, Czechoslovakia	
	49.79	10	CR6RZ	Emis. Oficial, Angola	
	49.79	0.25	HCTO5	R. Patria, Ecuador	
	49.79	120/240		Peking, China	
6029	49.76	0.25	HCPT5	La Voz del P. Socorro, Ecu.	
6030	49.75	0.1	CFVP	Calgary, Canada	
	49.75	20		◦ Mühlacker (SDR), Germany	
	49.75	0.5	XEKW	R. Continente, Mexico	
	49.75	1	HP5B	R. Cadena Miramar, Panama	
	49.75	2	DZH6	"The Call of Orient", Philip.	
	49.75	2	TGTQ	R. Internacional, Guatemala	

kc/s	m	kW	Call	Stations and countries	Rem.
6030	49.25	100	YIH62	Baghdad, Iraq	
6035	49.71	~~25~~ 30	3AM3	◦Monte Carlo, Monaco	
	49.71	4		Noumea, New Caledonia	
	49.71	15/100	GWS	BBC, London, Gt. Britain	
	49.71	10	ZYZ26	R. Globo, Brazil	
	49.71	0.15	OAX6B	R. Landa, Peru	
	49.71	1	CXA30	R. Nacional, Uruguay	
	49.71	120/240		Peking, China	
	49.71	50	XZK3	Rangoon, Burma	
6037	49.69	0.5	TIFC	Faro del Caribe, Costa Rica	
6040	49.67	15/100	GSY	BBC, London, Gt. Britain	
	49.67	20/100		AIR, Delhi, India	
	49.67	0.5	YNLUA	Radio City, Nicaragua	
	49.67	0.5	TGCO	Voz del Tropico, Guatemala	
	49.67	10	HJLB	La Voz del Tolima, Colombia	
6042	49.65	0.25	OAX6A	R. Arequipa, Peru	
6045	49.63	0.1	XETW	La Voz de Tampico, Mexico	
	49.63	100	YDF	Djakarta, Indonesia	
	49.63	1	HOU31	Voz del Baru, Panama	
	49.63	10/100		◦Allouis, France	
	49.63	5		Amman, Jordan	
	49.63	4		St. Louis, Sénégal	
	49.63	7.5	ZYS33	R. Clube Paranaense, Brazil	
	49.63	5	CE604.5	R. Libertad, Chile	
6050	49.59	0.5	HRLP4	R. America, Honduras Rp.	
	49.59	5	YSR	La Voz de El Salvador, E.S.	
	49.59			Tbilisi, USSR	
	49.59	15/100	GSA	BBC, London Gt. Britain,	
	49.59	0.5	VSZ10	Tarawa, Gilbert Isl.	
	49.59	1	HCJB	Voz de los Andes, Ecuador	
	49.59	0.8	TGXB	R. Centro Musical, Guatema.	
6054	49.55	5	HJEX	R. Pacifico, Colombia	
6055	49.55	7.5	PRB21	R. Panamericana, Brazil	
	49.55			Petrozavodsk, USSR	
	49.55	10	JOZ2	Tokyo, Japan	
	49.55	0.6	YNOW	Voz de la Am. C, Nicaragua.	
	49.55	5	CXA14	Servicio de Inform., Uruguay	
	49.55	0.25	DYH4	Dumaguete City, Philipp.	
	49.55	20/50		R. Liberation, Germany	
	49.55	100	OLR2G	◦Praha, Czechoslovakia	
6057	49.53	0.25	OAX2A	R. Trujillo, Peru	
6060	49.50	3	HRYN4	Voz del Merendon, Hond. R.	
	49.50	15/100	GSX	BBC, London, Gt. Britain	
	49.50	7	VQ7LO	Nairobi, Kenya	
	49.50	50	CKRZ	R. Canada, Canada	
	49.50	0.3	HORT	R. Balboa, Panama	
	49.50			Caltanissetta, Italy	
	49.50	1.5	TGXX	R. Ciros, Guatemala	
	49.50	50/60/100		R. Roma, Italy	
	49.50	1	HC1AC	Voz de Democracia, Ecuador	
6062	49.49	16	LRA31	R. Nacional, Argentina	
	49.48	2		Bangkok, Thailand	
6065	49.46	0.45	YNEQ	Voz de la Victoria, Nicaragua	
	49.46	100		◦Hörby, Sweden	
	49.46	15/120		Peking, China	
	49.46	7.5		R. Rural Brasileira, Brazil	
6067	49.45	1	EHT1	Tetuan, Morocco	
6069	49.43	50/100	JOA	Tokyo, Japan	
6070	49.42	1	CFRX	Toronto, Canada	
	49.42	15/100	GRR	BBC, London, Gt. Britain	
	49.42	120		◦R. Sofia, Bulgaria	
	49.42	10/50/100		R. Australia, Australia	
	49.42	0.25	CP18	R. El. Condor, Oruro, Bolivia	
	49.42	1	HSK5	R. Thailand, Thailand	
	49.42	10/50		Karachi, Pakistan	
	49.42	0.3	OAX4S	R. San Cristobal, Peru	
	49.42	5	CE607	R. Soc. Nac. de Mineria, Chile	
	49.42	0.25	TGPA	R. Palmeras, Guatemala	
	49.42	0.2	HCAQ2	R. Nueva Ortiz, Ecuador	
6075	49.38	0.5	TIGG	R. Excelsior, Costa Rica	
	49.38	20		NDR, Germany	
	49.38	2.5	CXA3	R. Ariel, Uruguay	
	49.38	5/7.5		R. Athens, Greece	
	49.38			Erevan, USSR	
	49.38	7.5/100		Warsaw, Poland	
6077	49.38	0.5	HRM5	La Voz del Junco, Hond. R.	
6079	49.35	3	OOB	Stanleyville, Belgian Congo	
6080	49.34	15/100	MCV	BBC, London, Gt. Britain	
	49.34	50/100	JOB	Tokyo, Japan	
	49.34	0.25	DZI7	Voice of Manila, Philipp.	
	49.34	0.01	CKFX	Vancouver, Canada	
	49.34	5	XEQ	R. Mexicana del C., Mexico	
	49.34	7.5	ZL7	Wellington, New Zealand	
	49.34	10	CSB51	R. Cl. Portuguese, Portugal	
	49.34	0.25	TGCB	R. Colonial, Guatemala	
	49.34	0.3	HCDE2	R. Bolivar, Ecuador	
6082	49.32	40	OAX4Z	R. Nacional, Lima, Peru	

kc/s	m	kW	Call	Stations and countries	Rem.
6085	49.30	120/240		Peking, China	
	49.30	10		◦München (BR), Germany	
	49.30			Tallinn, USSR	
	49.30	1	HRNQ4	R. Morazan, Hond. Rp.	
6090	49.26	2	VLI6	Sydney, Australia	
	49.26	0.3	HOO	R. Independiente, Panama	
	49.26	15/100	GWM	BBC, London, Gt. Britain	
	49.26	50	CKOB	R. Canada, Canada	
	49.26	50		◦R. Luxembourg	
	49.26	10		R. Cambodge, Cambodia	
	49.26	40	LRY1	R. Belgrano, Argentina	
	49.26	0.5/50	BED44	Taipei (BBC), Taiwan	
	49.26	0.2	HCVM6	R. Once de Noviembre, Ecu.	
	49.26	5	XECMT	R. Mante, Mexico	
	49.26	5	VQA53	Sabah, Borneo	
6095	49.22	1	OAX4H	R. Mundial, Peru	
	49.22	100		◦Hörby, Sweden	
	49.22	1	YSC	Ondas Populares, El Salvador	
	49.22	10/100		R. Free Europe, Germany	
	49.22	25	ZYB7	R. Dif. de Sao Paulo, Brazil	
	49.22	10		Colombo, Ceylon	
6100	49.18	0.25	CE610	R. Calama, Chile	
	49.18	15/120		Peking, China	
	49.18	100		◦R. Belgrade, Yugoslavia	
	49.18	0.25	DYH3	R. Cebu, Philipp.	
	49.18	0.3	TGOA	La Voz de las Americas, Guatemala	
	49.18			Hanoi, N. Vietnam	
	49.18	0.05	4VE	La Voix Evangelique, Haiti	
	49.18	10		Djeddah, Saudi Arabia	
6105	49.14	1	CR6RR	R. Diamang, Angola	
	49.14	7.5/100		◦Warsaw, Poland	
	49.14	0.25	XEQM	Merida, Mexico	
	49.14	5	ZYN6	Ceará R. Clube, Brazil	
	49.14	10/100		R. Free Europe, Germany	
6106	49.14	1	BEC32	Taipei, Taiwan	
6110	49.10	1		Radio Kashmir, India	
	49.10	15/100	GSL	BBC, London, Gt. Britain	
	49.10	7.5/100		BBC, Singapore, Malaya	
	49.10	7.5	DZI4	Manila, Philipp.	
	49.10	1	TGQA	R. Nacional, Guatemala	
	49.10	0.5	HRXW4	R. Comayagüela, Honduras R.	
	49.10	0.5	CE611	Nac. de Agricultura, Chile	
	49.10	2		R. Tanger, Morocco	
6112	49.08	0.25		Nairobi (FBS), Kenya	
6115	49.06	100	DMQ6	Deutsche Welle, Germany	
	49.06	1	HI1Z	Broadc. Nacional, Dom. Rep.	
	49.06	1		R. Douala, Cameroon (Fr.)	
	49.06	1	OBX4Z	R. Luz, Peru	
	49.06	5		◦Deutschl.sender (DDR), Ger.	
	49.06			Khabarovsk, USSR	
6120	49.02	10	LRX1	El Mundo, Argentina	
	49.02	15	OIX7	Pori, Finland	
	49.02	35/100		N. Luzon (VOA), Philipp.	
	49.02	7.5/20		BBC Cyprus, Cyprus	
	49.02	5	YDI4	Surabaja, Indonesia	
	49.02	120/240		Peking, China	
	49.02	1		Ankara St. Police R., Turkey	
6122	49.00	0.5	HP5	La Voz del Pueblo, Panama	
6125	48.98	10	CXA4	S.O.D.R.E., Uruguay	
	48.98	1	HRQ4	R. Suyapa. Honduras	
1625	48.98	15/100	GWA	BBC, London, Gt. Britain	
	48.98	7.5	PRG9	R. Nac. de Sao Paulo, Brazil	
	48.98	0.35	CP15	R. El Condor, La Paz, Bolivia	
6128	48.96	0.1	OAX7A	R. Cuzco, Peru	
	48.96	10	HJTB	R. Militar, Colombia	
6130	48.94	0.25	HI1G	Radiodifusora HIG, Dom. R.	
	48.94	2	VLT6	Port Moresby, New Guinea	
	48.94	0.25	HCFB2	R. Nac. Condor, Ecuador	
	48.94	0.1	XERCM	R. Cadena Nacional, Mexico	
	48.94	10/100	LKJ	◦R. Norway, Norway	
	48.94	10/100		R. Free Europe, Germany	
	48.94	1	YSABC	R. Emis. Salvadoreña, ElSalv.	
	48.94	1		R. Lao, Laos	
	48.94	100		◦R. Nacional, Spain	
	48.94	0.5	CHNX	Halifax, Canada	
	48.94			AIR, Gauhati, India	
6135	48.90	0.5	HRMF4	La Voz del Patio, Honduras R.	
	48.90	4		Papéete, Tahiti	
	48.90	7.5	ZHP	R. Singapore, Singapore	
	48.90	0.5	CP30	R. Gricota, Bolivia	
	48.90	7.5	PRC21	R. Soc. Gaucha, Brazil	
	48.90			Kaunas, USSR	
	48.90			Ulan Ude, USSR	
6140	48.86	15/100	MCW	BBC, London, Gt. Britain	
	48.86	3		R. Tripoli, Libya	
	48.86	0.4	YNWA	R. Mundial, Nicaragua	

kc/s	m	kW	Call	Stations and countries	Rem.
6140	48.96	10	VLX6	Perth, Australia	
	48.86	0.25	DYH2	Voice of Cebu, Philipp.	
	48.86	8/100		◦München (VOA), Germany	
	48.86	0.5	HI8Z	R. Santiago, Dom. Rep.	
	48.86	0.5	TGHC	R. Universal, Guatemala	
	48.86	2.5	CXA5	R. CXA5, Uruguay	
	48.86	2.3		Ondas del Volante, Ecuador	
6145	48.82	100		Allouis, France	
	48.82	2.5		Enugu, Nigeria	
	48.82	0.5	HRXN4	R. Concordia, Hond. R.	
	48.82	120/240		Peking, China	
	48.82	50		Algier 3, Algeria	
	48.82	50/200	KNBH	Dixon, USA	
6147	48.80	50	PRL9	R. Nacional, R. de Jan. Brazil	
6150	48.78	5	VLR6	Melbourne, Australia	
	48.78	15/100	GRW	BBC, London, Gt. Britain	
	48.78	5	CE615	R. Coop. Vitalicia, Chile	
	48.78	100		◦R. Belgrade, Yugoslavia	
	48.78	0.25	CP12	R. Fides, Bolivia	
	48.78	0.25	OAX1A	R. Delcar, Peru	
	48.78	0.5	TGAZ	R. Continental, Guatemala	
	48.78	2	CKRO	Winnipeg, Canada	
6152	48.76	7.5		R. Tabriz, Iran	
6153	48.75	0.5	OBX4G	R. Exelcior, Peru	
6154	48.74	3	CSB52	R. Renascenca, Portugal	
6155	48.74	0.2	OEI21	◦Wien, Austria	
	48.74	10	CXA13	R. Carve, Uruguay	
	48.74	0.15	4VWA	R. Citadelle, Haiti	
	48.74	10	HJTC	R. Militar, Columbia	
	48.74	0.3	HCLT4	R. Costa Azul, Ecuador	
	48.74	120/240		Peking, China	
	48.74	35		◦Salonika (VOA), Greece	
6160	48.70	1	CP40	Emisora LAB, Bolivia	
	48.70	1	OCX4G	R. Mundo, Peru	
	48.70	5	HJKJ	Nueva Granada, Colombia	
	48.70	10		Tokyo (FEN), Japan	
	48.70	0.5	CBUX	Vancouver, Canada	
	48.70	50	CHAC	R. Canada, Canada	
	48.70	0.25	TGZA	R. Oriental, Guatemala	
6165	48.66	1	3WT13	R. Nacional, S. Vietnam	
	48.66	100	HER3	◦Schwarzenburg, Switzerland	
	48.66	20		Damascus, U. Arab. Rep.	
	48.66	15/100	GWK	BBC, London, Gt. Britain	
	48.66	7.5	ZYR58	R. Cultura, Brazil	
	48.66	4		R. Tchad, Fr. Equat. Africa	
6170	48.62	0.25	DUH2	Philip. Broadc. Sce., Philp.	
	48.62	15/100	GSZ	BBC, London, Gt. Britain	
	48.62	0.2	ZHW24	R. Nyeri, Kenya	
	48.62	1	CXA21	R. Fenix, Uruguay	
	48.62	0.15	YSHQ	R. Progreso, El Salvador	
	48.62	1	YDL3	Padang, Indonesia	
	48.62	7.5/20		BBC, Cyprus, Cyprus	
	48.62	0.2	HCPJ2	R. Fluminense, Ecuador	
	48.62	100		Praha, Czechoslovakia	
	48.61	1	HRTW4	Union R. Hondureña, Hond.	
6175	48.58	7.5/100		BBC, Singapore, Malaya	
	48.58	0.2	HI1R	Voz de Fundacion, Dom. R.	
	48.58	0.3	HP5G	R. Panamericana, Panama	
	48.58	20/50		R. Liberation, Germany	
	48.58	7.5		Kaduna, Nigeria	
	48.58	0.3	OAX7C	R. Tahuantisuyo, Peru	
	48.58	0.1	XEXR	R. Gobernacion, Mexico	
	48.58	15/100		BBC, London, Gt. Britain	
	48.58	2		Malaga, Spain	
	48.58	10	PRH6	R. Guarani, Brazil	
	48.58	10/100		Allouis, France	
6177	48.56	5/7.5		Athens (NBI), Greece	
6178	48.55	0.5	4VES	La Voix de St. Marc, Haiti	
6180	48.54	1	TGWB	R. Nacional, Guatemala	
	48.54	15/100	GRO	BBC, London, Gt. Britain	
	48.54	0.5	YSMA	Voz Suprema de Occidente, El Salvador	
	48.54	10	LRA34	R. Nac. Mendoza, Argentina	
	48.54	0.3	OAX4P	R. Miraflores, Peru	
	48.54	120/240		R. Peking, China	
6183	48.52	1		R. Dalat, Vietnam (Rep.)	
6185	48.50	1		R. Addis Ababa, Ethiopia	
	48.50	10	ZYR77	R. Bandeirantes, Brazil	
	48.50	10	HJCQ	R. Televisora Nacional, Col.	
	48.50	10/100	LLI	R. Norway, Norway	
	48.50	0.5	YNVP	Voz de Nicaragua, Nicaragua	
	48.50	50/200	KCBR	Delano, USA	
	48.50	0.5	HRMT4	R. Molino Rojo, Honduras	
	48.50	0.45	CP9	R. Amauta, Bolivia	
	48.50	20/50		R. Liberation, Germany	
6188	48.48	100	YIH62	Baghdad, Iraq	
6190	48.47	5/25/50/100		◦Vatican City, Vatican State	
6190	48.47	20/50		R. Liberation, Germany	
	48.47	0.25	OAX4G	R. Lima, Peru	
	48.47	0.25	YNUW	R. Dario, Nicaragua	
	48.47	5	CE619	R. Corporacion, Chile	
	48.47	0.25	CP37	R. Oruro, Bolivia	
	48.47	1	4XB44	Tel Aviv, Israel	
	48.47	1	YSUA	R. Mil. Cincuenta, El Salv.	
	48.47	20/100	VUD	AIR, Delhi, India	
6195	48.43	15/100	GRN	BBC, London, Gt. Britain	
	48.43	1	HJEZ	Voz de Cali, Colombia	
	48.43	0.5	HRD4	Voz de Atlantida, Honduras R.	
	48.43			Pyongyang, Korea	
	48.43	100		Budapest, Hungary	
	48.43	7.5	PRD21	R. Emis. Continental, Brazil	
	48.43	0.54		La Voix de la Vie Marie, Haiti	
	48.43	1.5	HCFM6	R. Cosmopolita, Ecuador	
	48.43	7.5/100		Warsaw, Poland	
	48.43	1		Cayenne, Guiana (Fr.)	
6198	48.40	0.3	OAX1B	R. Piura, Peru	
6200	48.39	10/100		◦Allouis, France	
	48.39	0.1	TGKN	R. Novedades, Guatemala	
	48.39	10	4VHW	R. Haiti, Haiti	
	48.39	10	HRNQ	R. Morazan, Honduras	
	48.39	0.35		Omdurman, Sudan	
	48.39	120/240		Peking, China	
				6210 – 7100 kc/s	
6210	48.31			◦Bucuresti, Rumania	
6215	48.27	50/100		Cairo, Un. Arab. Rep.	
6220	48.23	0.3	4VCP	La Voix du Nord, Haiti	
6225	48.19	15/120		Peking, China	
6240	48.07	0.1		Mytilini, Greece	
6250	48.00			Pyongyang, Korea	
	48.00	0.75		R. Meshed, Iran	
	48.00	50/100		Cairo, Un. Arab. Rep.	
6260	47.92			Chinghai, China	
6280	47.77			Sinkiang, China	
6295	47.66	3	OTM1	R. Congo Belge, Belg. Congo	
	47.66	0.25	HCGE5	R. Mundial, Ecuador	
6299	47.62	1		Istanbul Tec. Univ., Turkey	
6345	47.28	5		R. Ulan Bator, Mongolia	
6353	47.22			Ashkhabad, USSR	
6360	47.17	100	CSA38	R. Nacional, Portugal	
6373	47.09	10		Atlantico, Lisboa, Portugal	
6374	47.09	100	CSA21	R. Nacional, Portugal	
6383	47.05	0.5	EPP2	Shiraz, Iran	
6400	46.88	0.2	HCRL2	R. Quinta Piedad, Ecuador	
6449	46.51	1		Ankara Tec. School, Turkey	
6480	46.30	0.06		R. Herakleion, Greece	
6500	46.16			Chinghai, China	
6521	46.01	0.5		Isfahan, Iran	
6525	45.98	0.3		Carpenission, Greece	
6590	45.52	0.1		Chios, Greece	
6595	45.48	15/120		Peking, China	
6600	45.45	0.4	TAZ	R. Izmir, Turkey	
6690	44.80	0.2		Technical School, Turkey	
6730	44.58			Tashkent, USSR	
6752	44.43	0.5		Larissa (FBS), Greece	
6790	44.18	7.5/20		BBC, Cyprus, Cyprus	
	44.18	15/120		Peking, China	
6810	44.05	15/120		Peking, China	
6820	43.99			Minsk, USSR	
6825	43.96	15		Tashkent, USSR	
6840	43.85			Inner Mongolia, China	
6870	43.63	1	CR6RS	R. Diamang, Angola	
6875	43.64	0.25		Seoul (AFKN), Korea	
6890	43.54	15/120		Peking, China	
6900	43.49	3		◦Tirana, Albania	
6925	43.33			Yunnan, China	
6974	43.02			Inner Mongolia, China	
6995	42.89	1		R. Mediterraneo, Spain	
	42.89	15/120		Peking, China	
7000	42.86	0.4		Izmir, Turkey	
	42.86	1	EFE34	R. Atlantico, Canary Isl.	
7010	42.80	10/50		◦Karachi, Pakistan	
7018	42.74	1		Istanbul Tec. Univ., Turkey	
7050	42.55	50/100		Cairo, Un. Arab. Rep.	
	42.52			Sinkiang, China	
7065	42.46	15/120		Peking, China	
7070	42.42	1	CR6RR	R. Diamang, Angola	
7072	42.42	0.3		R. Mogadiscio, It. Somaliland	
7080	42.37	120/240		◦Peking, China	
	42.37	1	HSQ	Bangkok, Thailand	
7090	42.31	0.3		Jannina (FBS), Greece	
				7100 – 7300 kc/s (41 m. b.)	
7100	42.25	5		R. Nepal, Nepal	
	42.25	0.015	EFJ8	R. Ribadavia, Spain	

kc/s	m	kW	Call	Stations and countries	Rem.
7100	42.25	100		R. Nacional, Spain	
	42.25	10/100		Allouis, France	
	42.25			Tashkent, USSR	
7105	42.22	10/100		R. Free Europe, Germany	
	42.22	1	YDJ2	Jogjakarta, Indonesia	
	42.22	20/100	VUD	AIR, Delhi, India	
	42.22	10/100		Allouis, France	
	42.22	1	CR6RO	R. Clube do Bie, Angola	
	42.20	4		R. Niger, Niger	
7110	42.19	35		Colombo, Ceylon	
	42.19	15/100	MCS	BBC, London, Gt. Britain	
	42.19	7.5		Kampala, Uganda	
	42.19	8/100		München (VOA), Germany	
7115	42.16	120/240		Peking, China	
	42.16	0.1	CR6AA	R. Lobito, Angola	
	42.16	10/100		Allouis, France	
	42.16	50		Algier 4, Algeria	
7118	42.14	1	YDU6	Denpassar, Indonesia	
7120	42.13	7.5/100		BBC, Singapore, Malaya	
	42.13	15/100	GRM	BBC, London, Gt. Britain	
7125	42.11	35		Courier (VOA), Greece	
	42.11	50	XZK4	Rangoon, Burma	
	42.11	4		Conakry, Guinea (Rep.)	
	42.11	50		Rangoon, Burma	
	42.11	7.5/100		Warsaw, Poland	
	42.11	120/240		Peking, China	
	42.11	20/100	VUD	AIR, Delhi, India	
	42.11			AIR, Gauhati, India	
7130	42.08	15/100		BBC, London, Gt. Britain	
	42.08	0.5		R.I.T.U, Cyprus	
7133	42.07	20		Damascus, Un. Arab. Rep.	
7135	42.05	0.3	OEI31	Wien, Austria	
	42.05	15/100	GRS	BBC, London, Gt. Britain	
	42.05	120/240		Peking, China	
	42.05	7.5/100		BBC, Singapore, Malaya	
7140	42.02	1	HSK6	R. Thailand, Thailand	
	42.02	10/100		R. Free Europe, Germany	
	42.02	~~25~~ 30	3AM4	Monte Carlo, Monaco	
	42.02	1	BEC23	Taichung, Taiwan	
	42.02	15/100		BBC, London, Gt. Britain	
	42.02	7.5		Dacca, Pakistan	
	42.02	0.06	EFJ16	R. Merida, Spain	
	42.02	0.3	YDR2	Ambon, Indonesia	
	42.02	20/100	VUD	AIR, Delhi, India	
	42.02			AIR, Hyderabad, India	
7142	42.01	0.25	CR6RA	R. Clube de Angola, Angola	
	42.01	5/7.5		R. Athens, Greece	
7143	42.00	0.1	TAO5	Tec. School, Istanbul, Turkey	
7145	41.99	10/100		R. Free Europe, Germany	
	41.99	1		R. Lao, Laos	
7149	41.96	1		R. Abidjan, Ivory Coast	
7150	41.96	15/100	GRT	BBC, London, Gt. Britain	
	41.96	0.25	OQ2AB	R. Elisabeth, Belg. Congo	
	41.96	5		Deutschlandsender (DDR), G.	
	41.96			Erevan, USSR	
	41.96			Khabarovsk, USSR	
	41.96	120/240		Peking, China	
7152	41.94	0.5	CR6RD	Nova Lisboa, Angola	
7154	41.95			Naval War School R., Turkey	
7155	41.92	4	FIQA	R. Tananarive, Madagascar	
	41.92	10/100		R. Free Europe, Germany	
7156	41.92	3	OQ2AD	R. VOV, Belg. Congo	
7160	41.90	10/100		Allouis, France	
	41.90	0.5/5		S. Isabel, Sp. Guinea	
	41.90	5/100	VUD	AIR, Delhi, India	
	41.90	35/100		Okinawa (VOA), Ryukyu Isl.	
	41.90	0.25		AIR, Ranchi, India	
	41.90	120/240		Peking, China	
	41.90	8/100		München (VOA), Germany	
	41.90	0.25		AIR, Ranchi, India	
7161	41.89	0.15	CR6RB	R. Cl. de Benguela, Angola	
7165	41.87	10/100		R. Free Europe, Germany	
	41.87	10/100		Allouis, France	
7167	41.86	5		Dar-es-Salaam, Tanganyika	
7170	41.84	2.5		AIR, Simla, India	
	41.84	20/100	VUD	AIR, Delhi, India	
	41.84	100	DMQ7	Deutsche Welle, Germany	
	41.84	20/50		R. Liberation, Germany	
	41.84	7.5		Aden, Aden	
	41.84	2.5		Lusaka, Rhodesia	
7171	41.84	4		Dakar, Sénégal	
7175	41.81	10/100		R. Free Europe, Germany	
	41.81			Caltanissetta, Italy	
	41.81	35/100		N. Luzon (VOA), Philipp.	
7180	41.78	1	BEG23	Taipei, Taiwan	
	41.78	50/100	JOB2	Tokyo, Japan	
	41.78	10/100		R. Free Europe, Germany	
7180	41.78	5	VQA54	R. Sabah, N. Borneo	
	41.78	3		Benghazi, Libya	
	41.78	1	HLK4	Seoul, Korea	
	41.78	100		Baghdad, Iraq	
	41.78	20/100	VUD	AIR, Delhi, India	
7185	41.75	15/100	GRK	BBC, London, Gt. Britain	
7187	41.74	10		R. Cambodge, Cambodia	
7189	41.73	7.5/2.5	4XB49	Israel	
7190	41.72	5		Biak, Neth., New Guinea	
	41.72	35		Colombo, Ceylon	
	41.72	4		R. Cotonou, Dahomey	
7192	41.71	10/100		R. Free Europe, Germany	
7200	41.67	15/100	GWZ	BBC, London, Gt. Britain	
	41.67			Stalinabad, USSR	
	41.67	0.25	OQ2AC	R. College, Belg. Congo	
	41.67	10		R. Belgrade, Yugoslavia	
	41.67	7.5	ZHL10	R. Singapore, Singapore	
	41.67	120/240		Peking, China	
	41.67	3		Amman, Jordan	
7205	41.64	0.05	CR7RB	R. Pax, Mozambique	
	41.64	100	DMQ7	Deutsche Welle, Germany	
	41.64	1		R. Hué, S. Vietnam	
	41.64	20/50		R. Liberation, Germany	
7210	41.61	100	HEI3	Schwarzenburg, Switzerland	
	41.61	100		Hörby, Sweden	
	41.61	0.25/10	VUC	AIR, Calcutta, India	
	41.61	15/100	GWL	BBC, London, Gt. Britain	
	41.61	1	YDH3	Semarang, Indonesia	
	41.61			Khabarovsk, USSR	
	41.61	10/100	LLS	R. Norway, Norway	
	41.61	4/25		Dakar, Sénégal	
7211	41.60	7.5		R. Cl. de Mozambique	
7212	41.60		OQ2AH	Bukavu, Belgian Congo	
7214	41.59	1		Sabaa-Aioun, Morocco	
	41.58	0.5		Kavala (FBS), Greece	
7215	41.58	1	BEC27	AFRS, Taiwan	
	41.58	10/50/100		R. Australia, Australia	
7220	41.55	15/100		BBC, London, Gt. Britain	
	41.55	10/50/100		R. Australia, Australia	
	41.55	150	YDF5	Djakarta, Indonesia	
	41.55	100		Budapest, Hungary	
	41.55	10/100		Allouis, France	
7225	41.52	20/50		R. Liberation, Germany	
	41.52	7.5		Dacca, Pakistan	
	41.52			Szechuan, China	
7229	41.50	20		Paradys, So. Africa	
7230	41.49	10		Voice of Tangier, Morocco	
	41.49	15/100	GSW	BBC, London, Gt. Britain	
	41.49	0.35	CR6RM	Moçamedes, Angola	
	41.49	120/240		Peking, China	
	41.49	0.5/50	BED7	Taipei (BBC), Taiwan	
7235	41.47	10/100		R. Free Europe, Germany	
	41.47	100		Praha, Czechoslovakia	
7238	41.45	5/100	CR7BX	R. Clube de Mozambique	
7240	41.44	15/120		Peking, China	
	41.44	7.5		Colombo, Ceylon	
	41.44	10/100	LLR	R. Norway, Norway	
	41.44	10/100	VUB	AIR, Bombay, India	
	41.44	7.5	YDP3	Medan, Indonesia	
	41.44	10/100		Allouis, France	
	41.44	7	VQ7LO	Nairobi, Kenya	
	41.44	20	TAM	R. Ankara, Turkey	
	41.44	5	VQA55	Sabah, Borneo	
7242	41.42	50/100	JOA2/JOB8	Tokyo, Japan	
7245	41.41	0.3	OEI22	Wien, Austria	
	41.41	4	OEI22	Kronstorf, Austria	
	41.40	20/50		R. Liberation, Germany	
	41.41	10/100		R. Free Europa, Germany	
	41.40	0.25	CR6RE	Malanje, Angola	
7250	41.38	15/100	GWI	BBC, London, Gt. Britain	
	41.38	7.5	ZHL7	R. Singapore, Singapore	
	41.37	7.5	CR7AA	R. Clube de Mozambique,	
	41.38			AIR, Lucknow, India	
	41.36	0.5		Florina (FBS), Greece	
7255	41.35	100	OLR8E	Praha, Czechoslovakia	
	41.36		OQ2AG	Coquilhatville, B. Congo	
	41.35	0.3	CR7IB	Beira, Mozambique	
	41.35	120		R. Sofia, Bulgaria	
7260	41.32	15/100	GSU	BBC, London, Gt. Britain	
	41.32	7.5/100		BBC, Singapore, Malaya	
	41.32	10/100	VUM	AIR, Madras, India	
	41.32	35		Salonika (VOA), Greece	
	41.32	4	FIQA	R. Tananarive, Madagascar	
	41.32	0.045	EFJ17	R. Ayora, Spain	
	41.32	12	3WT12	R. National, Vietnam (Rep.)	
7265	41.29	1.5		Bad Dürrheim (SWF), Germ.	
	41.29	1		R. Dalat, Vietnam	

kc/s	m	kW	Call	Stations and countries	Rem.
7265	41.29	120/240		Peking, China	
	41.29	4		R. Lomé, Togo	
7270	41.27	7.5	YDB3	Djakarta, Indonesia	
	41.27	12		Motala, Sweden	
	41.27	5/25/50/100		Vatican City, Vatican State	
	41.27			Erevan, USSR	
	41.27			Magadan, USSR	
7275	41.24	20		Paradys, So. Africa	
	41.24	50/60/100		◦R. Roma, Italy	
	41.24	20/50		R. Liberation, Germany	
7280	41.21	10/100		Allouis, France	
	41.21	15/100	GWN	BBC, Gt. Britain	
	41.21	5/25/50/100		◦Vatican City, Vatican State	
	41.21	10/50		Karachi, Pakistan	
	41.21	10/50/100		R. Australia, Australia	
	41.21	7.5	ZHL7	R. Singapore, Singapore	
	41.21			Kansu, China	
	41.21			Komsomolsk, USSR	
	41.21	0.5	DXH2	Mindanao, Philipp.	
7281	41.20	0.04	EFJ6	R. Almansa, Spain	
7285	41.18	100	TAS	◦R. Ankara, Turkey	
	41.18	5	JKJ	Tokyo, Japan	
	41.18	10/100		R. Free Europe, Germany	
	41.18	10/50		Karachi, Pakistan	
	41.18	5		Ibadan, Nigeria	
7290	41.15	12	3WT12	R. National, S. Vietnam	
	41.15	20/100	VUD	AIR, Delhi, India	
	41.15	3		Pan American Radio, Tang.	
	41.15	10/50		Karachi, Pakistan	
	41.15	100	DMQ7	Deutsche Welle, Germany	
	41.15	50/60/100		◦R. Roma, Italy	
	41.15	7.5	ZL13	Wellington, New Zealand	
	41.15	3		R. Addis Ababa, Ethiopia	
7295	41.12	0.3	YDQ3	Makassar, Indonesia	
	41.12	20		Paradys, So. Africa	
	41.12	0.25	EAJ8AB	R. Cl. Tenerife, Canary Isl.	
	41.12	120/240		◦Peking, China	
	41.12	10/100		R. Free Europe, Germany	
	41.15	4		R. AEF, Fr. Equat. Africa	
	41.12	7.5/100		◦Warsaw, Poland	
7300	41.10	3.5	BEC36	Taipei, Taiwan	
	41.10	5/7.5		Athens, Greece	
	41.09	7.5		Colombo, Ceylon	
				7312 – 9500 kcs	
7312	41.03	0.15	YNWN	R. Granada, Nicaragua	
7323	40.96	10		Lusaka, Rhodesia	
7324	40.96			Kansu, China	
7325	40.96	15/100	GRJ	BBC, London, Gt. Britain	
7330	40.93			Petropavlovsk, USSR	
	40.93			Ashkhabad, USSR	
	40.93			Stalinabad, USSR	
	40.93	50/100		Cairo, Un. Arab. Rep.	
**7335	40.90	3	CHU	◦Dominion Obs., Canada	
7370	40.71	15/120		Peking, China	
	40.71	0.5		R. Dzaoudzi, Comores Isl.	
7385	40.62			Sinkiang, China	
7400	40.54			Hanoi, N. Vietnam	
7422	40.43	1		Athens (FBS), Greece	
7480	40.08	15/120		Peking, China	
7500	40.00	15/120		Peking, China	
7545	39.76	2	TAO	Istanbul Univ. R., Turkey	
7570	39.63	2		Angmagssalik, Greenland	
7602	39.46	0.5	YNRM	R. Musun, Nicaragua	
7620	39.37	15/120		Peking, China	
7650	39.22			Murmansk, USSR	
	39.21	0.1		R. Brigadeiro Tobias, Brazil	
7660	39.16	1	CE766	R. Yungay, Chile	
	39.16	0.25	YNMS	R. Philips, Nicaragua	
7670	39.11	50		◦R. Sofia III, Bulgaria	
7753	38.67	0.15	YNCA	R. Atlantico, Nicaragua	
7770	38.61	15/120		Peking, China	
7802	38.45	0.2	CR6RP	Novo Redondo, Angola	
7850	38.20	3		◦R. Tirana, Albania	
7850	38.20	0.4		R. Ecuatorial, Sp. Guinea	
7890	38.02	0.1	YNBX	R. Oriental, Nicaragua	
7935	37.81	1	HLK52	Seoul, Korea	
	37.81	1.5	PSL	Agencia Nacional, Brazil	
7940	37.78	1.2		R. Alicante, Spain	
8036	37.34	2		◦Beyruth, Lebanon	
8108	37.00	0.75	EPU3	Ahwaz, Iran	
	37.00	0.5		Kordestan, Iran	
8230	36.45	0.25	ZNB	Mafeking, Bechuanaland	
8250	36.36			Alma Ata, USSR	
9009	33.30	50	4XB31	◦Tel Aviv, Israel	
9030	33.20	1	COBZ	R. Salas, Cuba	
9064	33.09	15/120		Peking, China	
9090	33.00			Inner Mongolia, China	
9170	32.72	15/120		Peking, China	
9180	32.68			Petropavlovsk, USSR	
9200	32.61	0.5	CE920	R. Militar Austral, Chile	
9210	32.57	50	OTH	R. Congo Belge, Belg. Cong.	
9235	32.45	1	COBQ	R. Onda Musical Cubana, C.	
9250	32.43			Alma Ata, USSR	
9254	32.42			◦Bucuresti, Rumania	
9275	32.34	10		◦R. Afr. Tang. (Ibra), Morocco	
	32.35	15		◦R. Inter-Afr., Tanger, Moroc.	
9290	32.28	5	PRN9	Voz da Policia Federal, Braz.	
9327	32.17	10		Voice of Tangier, Morocco	
9330	32.15	25		R. Andorra, Andorra	
9337	32.13	10		Voice of Tangier, Morocco	
9340	32.12	15/120		Peking, China	
	32.12	15		Alma Ata, USSR	
	32.10	1	CR6RI	R. Diamang, Angola	
9360	32.05	50		◦R. Nacional, Spain	
9362	32.05	1	COBC	R. Progreso, Cuba	
9370	32.02	100		R. Nacional, Spain	
9380	31.98			Khabarovsk, USSR	
	31.98	15		Alma Ata, USSR	
9385	31.98	50	OTM2	R. Congo Belge, Belg. Congo	
9390	31.95	15/120		Peking, China	
9400	31.92			Hanoi, N. Vietnam	
9410	31.88	15/100	GRI	BBC, London, Gt. Britain	
9412	31.88	0.5	OAX4W	R. America, Peru	
9436	31.79	10		Voice of Tangier, Morocco	
9440	31.78	10		Voice of Tangier, Morocco	
9444	31.76	1.2	CP38	R. La Cruz del Sur, Bolivia	
9455	31.73			Chinghai, China	
9460	31.72	120/240		◦Peking, China	
9465	31.70	20	TAP	◦R. Ankara, Turkey	
9470	31.68			Sinkiang, China	
	31.66	50/100		Cairo, Un. Arab. Rep.	
9490	31.61	1	EFE34	R. Atlantico, Canary Isl.	
9492	31.60			Inner Mongolia, China	
				9500–9775 kc/s – 31 metre band	
9500	31.58	20	XEWW	Voz de la Am. Latina, Mexico	
	31.58	1	CP6	R. Illimani, Bolivia	
	31.58			Petropavlovsk, USSR	
	31.58			Magadan, USSR	
	31.58			Chinghai, China	
	31.58	120/240		Peking, China	
	31.58	1	DZH3	R. Philippines, Philipp.	
9502	31.57	1	CR6RF	R. Cl. de Benguela, Angola	
9504	31.57	100	OLR3B	◦Praha, Czechoslovakia	
9505	31.56	0.3	OEI32	◦Wien, Austria	
	31.56	7.5	PRB22	R. Record, Brazil	
	31.56	20/100	VUD	AIR, Delhi, India	
	31.56	10		◦R. Belgrade, Yugoslavia	
	31.56	0.3		Salisbury, Rhodesia	
	31.56	0.25	HOLA	R. Atlantico, Panama	
	31.56	10/100		R. Free Europe, Germany	
	31.56	0.1	OAX6H	R. Tacna, Peru	
	31.56	15	YVXJ	R. Barquisimeto, Venezuela	
	31.56	35/100		◦Tangier (VOA), Morocco	
	31.56			AIR, Lucknow, India	
	31.56			R. Australia, Australia	
9510	31.55	15/100	GSB	BBC, London, Gt. Britain	
	31.55	10/50/100		R. Australia, Australia	
	31.55	120/240		◦Peking, China	
	31.55	1.5	BEC24	Kaohsiung, Taiwan	
9515	31.53	4	FIQA	R. Tananarive, Madagascar	
	31.53	100	TAT	◦R. Ankara, Turkey	
	31.53	50/200	KNBH	Dixon, USA	
	31.53			◦Caltanissetta, Italy	
	31.53	100	OLR3D	Praha, Czechoslovakia	
	31.53	10	CXA71	R. Sarandi, Uruguay	
	31.53	1	YSO	La Voz de la Democracia, El Salvador	
9520	31.51	7.5	ZL18	Wellington, New Zealand	
	31.51	35		◦Colombo, Ceylon	
	31.51	50	OZF5	◦Herstedvester, Denmark	
	31.51	35		Salonika (VOA), Greece	
	31.51	10/50/100		R. Australia, Australia	
	31.51	10/100		Allouis, France	
	31.51	20	HEU2	United Nations, Switzerland	
	31.51	0.25	OAX4J	R. La Cronica, Peru	
9523	31.50	20		Paradys, So. Africa	
9525	31.50	15/100	GWJ	BBC, London, Gt. Britain	
	31.50	50/100	JOB20	◦Tokyo, Japan	
	31.50	7.5/100		◦Warsaw, Poland	
	31.48	1	YVMZ	Maracaibo, Venezuela	
9530	31.48	0.3	OAX6G	R. Nacional Tacna, Peru	
	31.48	0.25/10	VUC	AIR, Calcutta, India	
	31.48	20/50/80	WRUL	R. Boston, USA	
	31.48	15/100		BBC, London, Gt. Britain	

kc/s	m	kW	Call	Stations and countries	Rem.
9530	31.48	35		Courier (VOA), Greece	
9535	31.46	100		Hörby, Sweden	
	31.46	0.25	COCO	Periodico del Aire, Cuba	
	31.46	100	HER4	Schwarzenburg, Switzerland	
	31.46	7.5/50		Manila (VOA), Philipp.	
9540	31.45	10/50/100		R. Australia, Australia	
	31.45	10/100		Allouis, France	
	31.45	7.5	ZL2	Wellington, New Zealand	
	31.45	50	XZK5	Rangoon, Burma	
	31.44	0.5	HRRH5	Voz de Occidente, Hond. R.	
9545	31.43	0.25	XEFT	La Voz de Vera Cruz, Mex.	
	31.43	7.5	4VC	R. Commerce, Haiti	
	31.43	0.3	OAX4K	R. Central, Peru	
	31.43	7.5	ZYS43	R. Emis. Paranaense, Brazil	
	31.43	8/100		München (VOA), Germany	
	31.40	4		R. AEF, Fr. Equat. Africa	
9550	31.41	100	OLR3A	Praha, Czechoslovakia	
	31.41	10/100		Allouis, France	
	31.41	0.5	XETT	La Hora Exacta, Mexico	
	31.41	2	DZI2	Manila, Philipp.	
	31.41	0.25	HCUM2	R. Universal, Ecuador	
	31.41	120/240		Peking, China	
	31.41	0.5	YDQ2	Makassar, Indonesia	
	31.41	15/100	GWB	BBC, London, Gt. Britain	
	31.41	10/100	VUB	AIR, Bombay, India	
	31.41	10/100	LLD	R. Norway, Norway	
	31.41	5		Grenada, Windward Isl.	
9555	31.40	5	YSS	R. Nacional, El Salvador	
	31.40	15	OIX2	Pori, Finland	
	31.40	7.5		Damascus, Un. Arab. Rep.	
	31.40	15/100		BBC, London, Gt. Britain	
	31.40	120/240		Peking, China	
	31.40			Stalinabad, USSR	
9560	31.38	15/100		BBC, London, Gt. Britain	
	31.38	10/50/100		R. Australia, Australia	
	31.38	10/100		Allouis, France	
	31.38	7.5/100		BBC, Singapore, Malaya	
	31.38	10	JBD2	Yamata (VUNC), Japan	
9562	31.37	50	OAX4R	R. Nacional Lima, Peru	
	31.37	25		Dakar, Sénégal	
9565	31.37	16	ZYK3	R. Jornal do Commercio, Braz.	
	31.36	20/50		R. Liberation, Germany	
	31.36	7.5		Kuching, Sarawak	
9570	31.35	0.35	CP21	R. La Plata, Bolivia	
	31.35	1	YVOM	San Cristobal, Venezuela	
	31.35	15/100	GWX	BBC, London, Gt. Britain	
9570	31.35	100		Bucuresti, Rumania	
	31.35	50/200	KCBR	Delano, USA	
	31.35	0.2	HCJC3	R. Fenix, Ecuador	
	31.35	120/240		Peking, China	
9575	31.33	50/60/100		R. Roma, Italy	
	31.33	10	ZYZ27	R. Mayrink Veiga, Brazil	
	31.33	0.5/50	BED66	Taipei BBC, Taiwan	
	31.33	20/100	VUD	AIR, Delhi, India	
	31.33			AIR, Gauhati, India	
9580	31.32	10/50/100		R. Australia, Australia	
	31.32	15/100	GSC	BBC, London, Gt. Britain	
9585	31.30	0.3	OBX4K	R. Selecta, Peru	
	31.30	10/100		Allouis, France	
	31.30	50	CKLP	R. Canada, Canada	
	31.30	20/50		R. Liberation, Germany	
	31.30	7.5	ZYR56	R. Excelsior, Brazil	
	31.30	100		R. Nacional, Spain	
	31.30	120/240		Peking, China	
	31.30	20/50/80	WRUL	R. Boston, USA	
	31.30	50	YDF6	Djakarta, Indonesia	
	31.30	35		Salonika (VOA), Greece	
9590	31.28	100		R. Nederland, Holland	
	31.28	0.2	OAX8F	R. Loreto, Peru	
	31.28	10/100	VUM	AIR, Madras, India	
	31.28	50/200	KNBH	Dixon, USA	
	31.28	50	WDSI	Wayne, USA	
	31.28	100		Praha, Czechoslovakia	
	31.28	0.25	HI2G	R. Dif. HIG, Dom. Rep.	
	31.28	7.5		Kampala, Uganda	
9595	31.27	10/100		R. Free Europe, Germany	
	31.27	20/50		R. Liberation, Germany	
	31.27	10	JOZ3	Tokyo, Japan	
	31.27	1	ZYN29	R. Cultura da Bahia, Brazil	
9600	31.25	15/100	GRY	BBC, London, Gt. Britain	
	31.25	10	CE960	R. Pres. Balmaceda, Chile	
	31.25	50/200	KCBR	Delano, USA	
	31.25			Leningrad, USSR	
	31.25	120/240		Peking, China	
9605	31.23	100		Praha, Czechoslovakia	
	31.23	10/100		R. Free Europe, Germany	
	31.23	100		R. Nacional, Spain	

kc/s	m	kW	Call	Stations and countries	Rem.
9605	31.23	0.25	XEYU	Universidad Nac., Mexico	
9607	31.23	5/75		Athens, Greece	
	31.23	0,5	HP5J	La Voz de Panama, Panama	
9610	31.22	2	VLW9	Perth, Australia	
	31.22	10	VLX9	Perth, Australia	
	31.22	3		Tirana, Albania	
	31.22	50	CHLS	R. Canada, Canada	
	31.22	25	ZYC 8	R. Tamoio, Brazil	
	31.22	10/100	LLG	R. Norway, Norway	
	31.22	5/10	CR8AB	R. Goa, Goa	
	31.22	0.3	OAX8C	R. Nacional Iquitos, Peru	
9614	31.20	7.5		Dacca, Pakistan	
9615	31.20	10/50/100		R. Australia, Australia	
	31.20	35/50/100		Tangier (VOA), Morocco	
	31.20	0.3	OEI33	Wien, Austria	
	31.20	15/100		BBC, London, Gt. Britain	
	31.20	3	TIRICA	La Voz de la Victor, Costa R.	
9616	31.19	5/100	CR7BJ	R. Cl. de Mozambique, Moz.	
9620	31.19	7.5		R. Addis Ababa, Ethiopia	
	31.19	12	3WT11	R. National, Vietnam (Rep.)	
	31.19	10	ZYR96	R. 9 de Julho, Brazil	
	31.19	1	COJK	Voz del Camagüeyana, Cuba	
	31.19	100		Hörby, Sweden	
	31.19	20	CXA6	S.O.D.R.E., Uruguay	
	31.19		COJK	R. Dif. CMCK y COJK, Cuba	
	31.19	15/120		Peking, China	
	31.19	35/100		Tangier (VOA), Morocco	
	31.19	35/100		N. Luzon (VOA), Philipp.	
9621	31.19	0.25		Zambezia, Mozambique	
9625	31.17	1	OAX8K	R. Atlantida, Peru	
	31.17	7.5/100		BBC, Singapore, Malaya	
	31.17	15/100	GWO	BBC, London, Gt. Britain	
9625	31.17	10	XEBT	Cad. Radiopolis, Mexico	
	31.17	50		Brazzaville (R. AEF), Fr. Equat. Africa	
9630	31.15	50	CKLO	R. Canada, Canada	
	31.15	20/100	VUD	Delhi, India	
	31.15	50/60/100		R. Roma, Italy	
9632	31.15	1	CR6RL	R. Clube de Angola, Angola	
9635	31.14	7.5	ZYR83	R. Aparecida, Brazil	
	31.14	100	CSA23	R. Nacional, Portugal	
	31.14	0.3	4VWI	La Voix Evangelique, Haiti	
9640	31.12	3	CXA8	R. Real de S. Carlos, Uruguay	
	31.12	100	DMQ9	Deutsche Welle, Germany	
	31.12	10/100		Allouis, France	
	31.12	15/100	GVZ	BBC, London, Gt. Britain	
	31.12	1.3		Accra, Ghana	
	31.12	50	HLK5	Seoul, Korea	
	31.12			Alma Ata, USSR	
	31.12	1	DZH2	Manila, Philippines	
	31.12	0.25		Nampula, Mozambique	
9645	31.10	2	TIFC	Faro del Caribe, Costa Rica	
	31.10	10/100	LLH	R. Norway, Norway	
	31.10	7.5	ZYV40	R. Cultura de Pocos de Caldas, Brazil	
	31.10	10/50		Karachi, Pakistan	
	31.10	0.3	HOJ53	R. Provincias, Panama	
9646	31.10	5/25/50/100		Vatican City, Vatican State	
9650	31.09	10/50/100		R. Australia, Australia	
	31.09	50	WDSI	Brentwood, USA	
	31.09	7.5/20		BBC Cyprus, Cyprus	
	31.09	100		Honolulu (VOA), Hawaii	
	31.09			Yunnan, China	
9655	31.07	10/100		R. Free Europe, Germany	
	31.07	50	OTC	Leopoldville, Belg. Congo	
	31.07	5		Lagos, Nigeria	
9660	31.06	7.5	LRX	R. El Mundo, Argentina	
	31.06	10	VLQ9	Brisbane, Australia	
	31.06	15/100	GWP	BBC, London, Gt. Britain	
	31.06	5/25/50/100		Vatican City, Vatican State	
	31.06	1		R. Kashmir, India	
	31.06			Komsomolsk, USSR	
	31.06	5	VQA56	Sabah, Borneo	
	31.06	100		R. Iran, Iran	
9665	31.04	0.3	OEI23	Wien, Austria	
	31.04	100	HEU3	Schwarzenburg, Switzerland	
	31.04	120/240		Peking, China	
	31.04	4	OEI23	Kronstorf, Austria	
	31.04	20/50		R. Liberation, Germany	
	31.04			Kiev, USSR	
9667	31.04	1		R. Somali, Somaliland (Br.)	
9668	31.03	5	TGNB	R. Cultural, Guatemala	
9670	31.02	1	COCQ	Circuito CMQ, Cuba	
	31.02	15/120		Peking, China	
	31.02	8/100		München, VOA, Germany	
9675	31.01	10	ZYT29	R. Diario da Manha, Brzail	
	31.01	10/100		Allouis, France	

kc/s	m	kW	Call	Stations and countries	Rem.
9675	31.01	20/100	VUD	AIR, Delhi, India	
	31.01	50/100	JOB3	Tokyo, Japan	
	31.01	15/100	GWT	BBC, Gt. Britain	
	31.01	20/50/80	WRUL	R. Boston, USA	
9677	31.00	100		R. Nacional, Spain	
9680	30.99	10/50/100		R. Australia, Australia	
	30.99	5	VLR9	Melbourne, Australia	
	30.99	10	VLH9	Melbourne, Australia	
	30.99	10/100		Allouis, France	
	30.99	10	XEQQ	R. Mexicana del Centro, Mex.	
	30.99	20		Paradys, So. Africa	
	30.99	20/50		R. Liberation, Germany	
9685	30.98	1	HOF31	Circuito R.P.C., Panama	
	30.98	50	PRA6	R. Gazeta, Brazil	
	30.98	7.5/100		Warsaw, Poland	
	30.98	50		Algier 2, Algeria	
9690	30.96	100	LRA32	R. Nacional, Argentina	
	30.96	15/100	GRX	BBC, Gt. Britain	
	30.96	7.5/100		BBC, Singapore, Malaya	
	30.96	0.25	DZH5	Manila, Philipp.	
	30.96	120/240		Peking, China	
9695	30.94	10/100		R. Free Europe, Germany	
	30.94	50/100	JOA3	Tokyo, Japan	
	30.94	100		R. Nacional, Spain	
	30.94	10	ZYB22	R. Rio Mar, Brazil	
9700	30.93	120		R. Sofia, Bulgaria	
	30.93	15/100	GWY	BBC, London, Gt. Britain	
	30.93	50/200	KCBR	Delano, USA	
9705	30.91	10/50		Karachi, Pakistan	
	30.91	20/50		R. Liberation, Germany	
	30.91	100	ORU3	Bruxelles, Belgium	
	30.91	10	ZYZ24	R. Maua, Brazil	
	30.91	20/100	VUD	AIR, Delhi, India	
9710	30.90	50	YDF6	Djakarta, Indonesia	
	30.90	50/60/100		R. Roma, Italy	
	30.90	2.5	ZQP	Lusaka, Rhodesia	
	30.90	50	CHLR	R. Canada, Canada	
9712	30.89	10/100		R. Free Europe, Germany	
9715	30.88	10/100		R. Free Europe, Germany	
	30.88	10/50/100		R. Nederland, Holland	
	30.88	15/120		Peking, China	
9717	30.87	10/100		R. Free Europe, Germany	
9720	30.86	50	PRL7	R. Nacional, R. de Jan. Brazil	
	30.86	20		Paradys, So. Africa	
	30.86			AIR, Hyderabad, India	
9725	30.85	15/100		BBC, London, Gt. Britain	
	30.85	7.5/100		BBC, Singapore, Malaya	
	30.85	10/100		R. Free Europe, Germany	
	30.85			Komsomolsk, USSR	
9727	30.84	100	CSA26	R. Nacional, Portugal	
9730	30.83	12		Leipzig (DDR), Germany X	
	30.83	2	DZH7	Call of the Orient, Philipp.	
	30.83	20/50		R. Liberation, Germany	
	30.83			R. Brazzaville, Fr. Equat. A.	
	30.83	20/100	VUD	AIR, Delhi, India	
9735	30.82	15/100	GWT	BBC, London, Gt. Britain	
	30.82	15/120		Peking, China	
	30.82	7.5	HI2T	La Voz Dominicana, Dom. R.	
	30.82	100	DMQ9	Deutsche Welle, Germany	
	30.82	3	ZPA6	R. Guairá, Paraguay	
9740	30.80	10/50		Karachi, Pakistan	
	30.80	15/100		BBC, London, Gt. Britain	
	30.80	1	COKG	R. Reloj del Aire, Cuba	
	30.80	100	CSA27	R. Nacional, Portugal	
	30.80	50	CHFO	R. Canada, Canada	
	30.80	5	VQA57	Sabah, Borneo	
9742	30.79	10	LRS1	R. Splendid, Argentina	
9745	30.78	100/20	ORU3/5	Bruxelles, Belgium	
	30.78	100		R. Nederland, Holland	
	30.78	1/40	HCJB	Voz de los Andes, Ecuador	
	30.78	7.5	ZYR57	R. Cultura, Brazil	
	30.78	3.5	BEC28	Taipei, Taiwan	
	30.78	4		Bamako, Fr. Sudan	
	30.78	35/100		Okinawa (VOA), Ryukyu Isl.	
	30.78	20/100	VUD	AIR, Delhi, India	
9746	30.78	100	CSA28	R. Nacional, Portugal	
9750	30.77	10/100		R. Free Europe, Germany	
	30.77	15/100		BBC, London, Gt. Britain	
	30.77	10/50		Karachi, Pakistan	
	30.77	10/100		Allouis, France	
	30.77			Khabarovsk, USSR	
9754	30.76	25		R. National, Vietnam (Rep.)	
9755	30.76	10/100		Allouis, France	
	30.75	15/100		BBC, London, Gt. Britain	
	30.76	1	CR6RH	Sa da Bandeira, Angola	
	30.76	7.5	ZYW23	R. Brazil Central, Brazil	
	30.76	120/240		Peking, China	

kc/s	m	kW	Call	Stations and countries	Rem.
9760	30.74	15/100	MCR	BBC, London, Gt. Britain	
	30.74	10	TGWA	R. Nacional, Guatemala	
	30.74	40	LRY	R. Belgrano, Argentina	
	30.74	4	4VEH	La Voix Evangelique, Haiti	
9765	30.72	20/50		R. Liberation, Germany	
	30.72	10/100		Allouis, France	
	30.72	15/100		BBC, London, Gt. Britain	
	30.72	1	CR6RZ	R. Angola, Angola	
	30.72	15/120		Peking, China	
9770	30.71	15/100	MCN	BBC, London, Gt. Britain	
	30.71	4	4VEH	La Voix Evangelique, Haiti	
	30.70	10	PRL4	R. Dif. Eduacaçao, Brazil	
9775	30.69	3	BEC32	Taipei, Taiwan	
	30.69	120/240		Peking, China	
				9775 – 11700 kc/s	
9785	30.66	120/240		Peking, China	
9790	30.64			Leningrad, USSR	
	30.64			Lvov, USSR	
	30.64	50/100		Cairo, Un. Arab. Rep.	
9795	30.63	50/100		Cairo, Un. Arab. Rep.	
9825	30.53	15/100	GRH	BBC, London, Gt. Britain	
9833	30.51	100		Budapest, Hungary	
	30.51	1	COBL	R. Aeropuerto, Cuba	
9840	30.49	2		Baku, USSR	
9850	30.46	20/100		AIR, Delhi, India	
9860	30.43	15/120		Peking, China	
9865	30.40	50	YDF8	Djakarta, Indonesia	
9900	30.30			Hanoi, N. Vietnam	
9915	30.26	15/100	GRU	BBC, London, Gt. Britain	
9940	30.18			Hanoi, N. Vietnam	
9950	30.19	0.5		Kozani (FBS), Greece	
9972	30.08	15/120		Peking, China	
*10000	30.00	2	WWVH	Puunene, Hawaii	
*	30.00	0.5	MSF	Teddington, Gt. Britain	
*	30.00	10	WWV	Lanham, USA	
*	30.00	2	JJY	Tokyo, Japan	
*	30.00	2	LOL	Buenos Aires, Argentina	
10220	29.35	1.5	PSH	Agencia Nacional, Brazil	
10245	29.28			Sinkiang, China	
10260	29.24	15/120		Peking, China	
**10332	29.04		GPB30	Rugby, Gt. Britain	
10375	28.90	5		R. Ulan Bator, Mongolia	
10430	28.75	10/100		Allouis, France	
11000	27.27			Szechuan, China	
11040	27.17			Inner Mongolia, China	
11100	27.03	15/120		Peking, China	
11290	26.57	15/120		Peking, China	
11455	26.19	15/120		Peking, China	
11458	26.19	120		R. Inter Africa, Tang., Moroc.	
11515	26.05	15/120		Peking, China	
11517	26.04	10		R. Afr. Tanger (Ibra), Moroc.	
11600	25.86	15/120		Peking, China	
11630	25.79	40		Leningrad, USSR	
	25.79	15/120		Peking, China	
11650	25.75	120/240		Peking, China	
11670	25.71	50	HSK9	R. Thailand, Thailand	
	25.71	50/100		Cairo, Un .Arab. Rep.	
	25.71	50		R. Congo Belge, Belg. Congo	
11674	25.70	10/50		Karachi, Pakistan	
11675	25.70	15/120		Peking, China	
	25.70	50/100		Cairo, Un. Arab. Rep.	
11680	25.68	15/100	GRG	BBC, London, Gt. Britain	
	25.68	10	HJKZ	R. Televisora, Nac. Colombia	
11685	25.67	5/25/50/100		Vatican City, Vatican State	
11690	25.66			Tashkent, USSR	
	25.66	15/120		Peking, China	
	25.66			Khabarovsk, USSR	
				11700–11975 kc/s – 25 metre band	
11700	25.64	10/100		Allouis, France	
	25.64	15/100	GVW	BBC, London, Gt. Britain	
	25.64	0.3	TGQB	R. Nacional, Guatemala	
	25.64			Kiev, USSR	
11703	25.64	20		R. Tehran, Iran	
11705	25.63	50/100	JOA4,[illegible]	Tokyo, Japan	
	25.63	100		Hörby, Sweden	
	25.63	50	CKXA	R. Canada, Canada	
11710	25.62	10/50/100		R. Australia, Australia	VLA4,VLS[illegible]
	25.62	50	WBOU	Bound Brook, USA	
	25.62	20/50/80	WRUL	R. Boston, USA	
	25.62	20/100	VUD	AIR, Delhi, India	
	25.62	8/100		München, VOA, Germany	
	25.62	50		Algier, Algeria	
11718	25.60	5/7.5		Athens, Greece	
11720	25.60	50	OTH3	R. Congo Belge, Belg. Congo	
	25.60	50	OQ2AA	R. Leo, Belgian Congo	
	25.60	50	CHOL	R. Canada, Canada	
	25.60	10		R. Nac. Rio de Jan., Brazil	

kc/s	m	kW	Call	Stations and countries	Rem.
11720	25.60			R. Nac. de Brasilia, Brazil	
	25.60	7.5/20		BBC, Cyprus, Cyprus	
	25.60	2	CKRX	Winnipeg, Caneda	
	25.60	20	ORU5	Bruxelles, Belgium	
11725	25.59	100	OLRYE	Praha, Czeckoslovakia	
	25.58	10/100		R. Free Europe, Germany	
	25.58	50/100	JOA8/JOB6	Tokyo, Japan	
	25.58	15/100		BBC, London, Gt. Britain	
	25.58	7.5/100		BBC, Singapore, Malaya ×	
11730	25.58	15/100	GVV	BBC, London, Gt. Britain	
	25.58	100		R. Nederland	
	25.58			Petropavlovsk, USSR	
	25.58	100		Praha, Czechoslovakia	
	25.58	20/100	VUD	AIR, Delhi, India	
11735	25.56	10/~~100~~	LKQ	R. Norway, Norway	
	25.56	5	CXA7	R. Oriental, Uruguay	
	25.56	10/100		R. Free Europe, Germany	
	25.56	7.5	ZYG3	R. Clube Goiania, Brazil	
11740	25.55	10/50/100		R. Australia, Australia	VLB4
	25.55	5/25/50/100		Vatican City, Vatican State	
	25.55	7.5/100		Warsaw, Poland	
	25.55	20/50/80	WRUL	R. Boston, USA	
	25.55			Kiev, USSR	
	25.55	1	COCY	C. Nac. Cubano, Cuba	
11745	25.54	10/100		R. Free Europe, Germany	
	25.54	10		ELWA, Liberia	
	25.54			Hanoi, N. Vietnam	
	25.54	100		Praha, Czechoslovakia	
11750	25.53	15/100	GSD	BBC, London, Gt. Britain	
	25.53	10		Tokyo (FEN), Japan	
	25.53	0.35	TGCX	R. Cristal, Guatemala	
	25.53	120/240		Peking, China	
11755	25.52	10/100		R. Free Europe, Germany	
	25.52	5	CE1174	R. Nuevo Mundo, Chile	
	25.52			Komsomolsk, USSR	
	25.52			Petropavlovsk, USSR	
11760	25.51	10/50/100		R. Australia, Australia	
	25.51	50	CKRA	R. Canada, Canada	
	25.51	10/100		R. Free Europe, Germany	
	25.51	35		Courier (VOA), Greece	
	25.51	35/50/100		Tangier (VOA), Morocco	
	25.51	20	TAK	R. Ankara, Turkey	
11765	25.50	20/50		R. Liberation, Germany	
	25.50	7.5/50		Manila (VOA), Philippines	
	25.50	35/100		N. Luzon (VOA), Philipp.	
	25.50	25	ZYB8	R. Tupi de Sao Paulo, Brazil	
	25.50	35/100		Tangier (VOA), Morocco	
11770	25.49	10/50/100		R. Australia, Australia	VLB4
	25.49	15/100	GVU	BBC, London, Gt. Britain	
	25.49	7.5	YDE	Djakarta, Indonesia	
	25.49	100	YDF2	Djakarta, Indonesia	
	25.49	5/100	CR7BF	R. Clube de Mozambique,	
11775	25.48	0.2	OEI35	Wien, Austria	
	25.48		ZYZ28	R. Mayrink Veiga, Brazil	
	25.48	10/100		R. Free Europe, Germany	
	25.48	100		VOA, Honolulu, Hawaii	
11780	25.47	50/100	JOB4	Tokyo, Japan	
	25.47	7.5	ZL3	Wellington, New Zealand	
	25.47	20/50		R. Liberation, Germany	
	25.47	20/50/80	WRUL	R. Boston, USA	
	25.47	15/100		BBC, London, Gt. Britain	
	25.47	7.5/100		BBC, Singapore, Malaya	
	25.47	20/100		AIR, Delhi, India	
11785	25.46	40		Kiev, USSR	
	25.46	0.2	OEI24	Wien, Asutria	
	25.46	35/50/100		Tangier (VOA), Morocco	
	25.46	7.5	ZYU6	R. Guaiba, Brazil	
	25.46	1	YDJ4	Jogjakarta, Indonesia	
11789	25.46	100	YDF2	Djakarta, Indonesia	
11790	25.45	35/100		N. Luzon (VOA), Philipp.	
	25.45	7.5/50		Manila (VOA), Philipp.	
	25.45	15/100	GWV	BBC, London, Gt. Britain	
	25.45	35/50/100		Tangier (VOA), Morocco	
11795	25.43	100	DMQ11	Deutsche Welle, Germany	
	25.43	100	OLR4G	Praha, Czechoslovakia	
	25.43	50	OTM5	R. Congo Belge, Belg. Congo	
	25.43	100	YDF3	Djakarta, Indonesia	
11800	25.42	50/60/100		R. Roma, Italy	
	25.42	15/100	GWH	BBC, London, Gt. Britain	
	25.42	50/100	JOB23	Tokyo, Japan	
	25.42	120/240		Peking, China	
	25.42	1	COBH	R. Onda Musical ,Cuba	
11805	25.41	35		Salonika (VOA), Greece	
	25.41	10		R. Globo, Brazil	
11810	25.40	10/50/100		R. Australia, Australia	
	25.40	50/60/100		R. Roma, Italy	
	25.40	100		Hörby, Sweden	
	25.40	7.5	ZL9	Wellington, New Zealand	
	25.40	110	WLWO	~~Bethany~~, USA	
11815	25.39	10/100		R. Free Europe, Germany	
	25.39	0.5/50	BED6	Taipei (BCC), Taiwan	
	25.39	100		R. Nacional, Spain	
	25.39	7.5	ZYW24	R. Brazil Central, Brazil	
11820	25.38	15/100	GSN	BBC, London, Gt. Britain	
	25.38	120/240		Peking, China	
	25.38	7.5/100		BBC, Singapore, Malaya	
	25.38	0.15	XEBR	El Heraldo de Sonora, Mex.	
	25.38			Kiev, USSR	
	25.38			Magadan, USSR	
11822	25.38	10		Lusaka, Rhodesia	
11825	25.37	20/50		R. Liberation, Germany	
	25.37	4		Papeete, Tahiti	
11830	25.36	50	WDSI	Brentwood, USA	
	25.36	10/100		R. Free Europe, Germany	
	25.36	7.5	ZL19	Wellington, New Zealand	
	25.36	8/100		München, VOA, Germany	
	25.36	50/200	KCBR	Delano, USA	
11835	25.35	5	CXA19	El Espectador, Uruguay	
	25.35	35		Colombo, Ceylon	
	25.35	50		Algier 1, Algeria	
11840	25.34	100	CSA31	R. Nacional, Portugal	
	25.34	10/50/100		R. Australia, Australia	
	25.34	2	VLW11	Perth, Australia	
	25.34	15/100	GWQ	BBC, London, Gt. Britain	
	25.34	0.25	DUH5	Philipp. Broadc. Sce. Phil.	
	25.34	20		Paradys, So. Africa	
	25.34			Khabarovsk, USSR	
	25.34	0.5/50	BED64	Taipei (BBC), Taiwan	
11845	25.33	10/100		Allouis, France	
	25.33	10/50		Karachi, Pakistan	
	25.33	100	OLR4H	Praha, Czechoslovakia	
11850	25.32	10/50/100		R. Australia, Australia	
	25.32	110	WLWO	Bethany, USA	
	25.32	100	ORU4	Bruxelles, Belgium	
	25.32	10/100	LLK	R. Norway, Norway	
	25.32	5	TGNC	R. Cultural, Guatemala	
	25.32	1.5	ZPA3	R. Teleco, Paraguay	
	25.32			Komsomolsk, USSR	
	25.32	25	CE1185	R. Cruz del Sur, Chile	
	25.32	0.3	4VWI	La Voix Evangelique, Haiti	
	25.32			Petropavlovsk, USSR	
11855	25.31	10/100		R. Free Europe, Germany	
	25.31	2	DZH8	Call of the Orient, Philip.	
11860	25.30	15/100	GSE	BBC, London, Gt. Britain	
	25.30	10	XELZZ	R. Independiente Mexico	
	25.30	15/120/240		Peking, China	
	25.30			Kiev, USSR	
11865	25.28	100	HER5	Schwarzenburg, Switzerland	
	25.28	10	PRA8	R. Cl. de Pernambuco, Brazil	
11870	25.27	50	WBOU	Bound Brook, USA	
	25.27	10/50/100		R. Australia, Australia	
	25.27	50/200	KNBH	Dixon, USA	
	25.27	35/100		Tangier (VOA), Morocco	
11875	25.26	35/100		Tangier (VOA), Morocco	
	25.26	10	ZYN32	R. Soc. da Bahia, Brazil	
	25.26	35		Colombo, Ceylon	
11880	25.25	20	LRS	R. Splendid, Argentina	
	25.25	5	VLH11	Melbourne, Australia	
	25.25	10/50/100		R. Australia, Australia	
	25.25	15/100	GRE	BBC, London, Gt. Britain	
	25.25	7.5/100		BBC, Singapore, Malaya	
	25.25	1	XEHH	R. Dif. XERH/XEHH, Mex.	
	25.25	100		Hörby, Sweden	
11885	25.24	10/100		R. Free Europe, Germany	
	25.24	40		Leningrad, USSR	
	25.24	10	CXA68	R. Sarandi, Uruguay	
	25.24	10/50		Karachi, Pakistan	
	25.24	120/240		Peking, China	
11890	25.23	15/100	GWW	BBC, London, Gt. Britain	
	25.23			Kiev, USSR	
	25.23	35/100		Tangier (VOA), Morocco	
	25.23	35/100		N. Luzon (VOA), Philipp.	
11895	25.22	25		Dakar, French W. Africa	
	25.22	10/100		R. Free Europe, Germany	
	25.22	35/100		N. Luzon (VOA), Philipp.	
11900	25.21	10/50/100		R. Australia, Australia	VLB4
	25.21	35/50/100		Tangier (VOA), Morocco	
	25.21	50/200	KNBH	Dixon, USA	
	25.21	50	CKEX	R. Canada, Canada	
	25.21	20		Paradys, So. Africa	
	25.21	20	CXA10	S.O.D.R.E., Uruguay	
	25.21			Komsomolsk, USSR	
	25.21			Petropavlovsk, USSR	
	25.21	0.25	OQ2AB	R. Elisabeth, Belg. Congo	

kc/s	m	kW	Call	Stations and countries	Rem.
11905	25.20	50/60/100		R. Roma, Italy	
	25.20	7.5/100		Warsaw, Poland	
11910	25.19	15/100	MCO	BBC, London, Gt. Britain	
	25.19	100		Budapest, Hungary	
	25.19	0.5	HSK7	R. Thailand, Thailand	
	25.19	120/240		Peking, China	
11914	25.18	10/50		Karachi, Pakistan	
11915	25.18	50		R. Nederland, Holland	
	25.18	30	HCJB	La Voz de los Andes, Ecuad.	
	25.18	10/100		R. Free Europe, Germany	
11920	25.17	10/100		Allouis, France	
	25.17	20/100	VUD	AIR, Delhi, India	
	25.17	50		Call of the Orient, Philipp.	
11925	25.16	10	ZYR78	R. Bandeirantes, Brazil	
	25.16	20/50		R. Liberation, Germany	
	25.16	50	HLK6	Seoul, Korea	
	25.16	7.5	YDP4	Medan, Indonesia	
	25.16	15/120		Peking, China	
	25.16	20/100	VUD	AIR, Delhi, India	
11930	25.15	15/100	GVX	BBC, London, Gt. Britain	
	25.15	7.5/100		BBC, Singapore, Malaya	
	25.15	50		R. Brazzaville, Fr. Equat. Af.	
11935	25.14	0.2	OEI36	Wien, Austria	
	25.14	7.5	ZYS35	R. Cl. Paranaense, Brazil	
	25.14	15/120		Peking, China	
	25.14	20/50		R. Liberation, Germany	
11937	25.14	20		Paradys, So. Africa	
	25.13	100		Bucuresti, Rumania	
11940	25.13	0.5	YEX29	R. Angkatan Udara, Indones.	
	25.13	10/100		R. Free Europe, Germany	
	25.13	5	CE1190	R. Coop. Vitalicia, Chile	
	25.13	20/100	VUD	AIR, Delhi, India	
	25.13	50/100	JOA26	Tokyo, Japan	
11945	25.12	15/100	MCQ	BBC, London, Gt. Britain	
	25.12	100	DMQ11	Deutsche Welle, Germany	
	25.12	120/240		Peking, China	
	25.12	50	CKNK	R. Canada, Canada	
	25.12	20/100	VUD	AIR, Delhi, India	
11950	25.10	10/50/100		R. Nederland, Holland	
	25.10	3		Djeddah, Saudi Arabia	
	25.10	7.5	PRL3	R. Dif. Educaçao, Brazil	
11955	25.09	15/100	GVY	BBC, London, Gt. Britain	
	25.09	7.5/100		BBC, Singapore, Malaya	
	25.09	120/240		Peking, China	
11960	25.08	15/100	MCT	BBC, London, Gt. Britain	
	25.08	5	CE1196	Soc. Nac. de Minería, Chile	
	25.08	35/100		Okinawa (VOA), Ryukyu Isl.	
	25.08	1		Salonika (FBS), Greece	
	25.08	8/100		München (VOA), Germany	
11965	25.07	10	CXA55	S.O.D.R.E., Uruguay	
	25.07	7.5	PRB24	R. Record, Brazil	
	25.07	120/240		Peking, China	
	25.07	50/100	JOB22	Tokyo, Japan	
	25.07	20/50		R. Liberation, Germany	
	25.07	15/100		BBC, London, Gt. Britain	
11970	25.06	7/50		Brazzaville, Fr. Equat. Africa	
	25.06	110	WLWO	Bethany, USA	
11975	25.05	120/240		Peking, China	
	25.05	100	OLR4K	Praha, Czechoslovakia	
	25.05	7.5/100		Warsaw, Poland	
	25.05	7.5	PRC20	R. Soc. Gaucha, Brazil	
	25.05	1	CR6RD	Nova Lisboa, Angola	
				11995 – 15100 kc/s	
11990	25.02	50/100		Cairo, Un. Arab. Rep.	
11995	25.01	100	CSA32	R. Nacional, Portugal	
12000	25.00			Hanoi, N. Vietnam	
	25.00	5	CE1180	R. Soc. Nac. de Agric., Chile	
12020	24.96	20/100		AIR, Delhi, India	
12025	24.95	50/100		Cairo, Un. Arab. Rep.	
12030	24.94	50/100		Cairo, Un. Arab. Rep.	
12040	24.92	15/100	GRV	BBC, London, Gt. Britain	
12095	24.80	15/100	GRF	BBC, London, Gt. Britain	
12175	24.64	7	TFJ	Reykjavik, Iceland	
14610	20.53	1.5	PSF	Agencia Nac., Brazil	
**14670	20.45	0.3	CHU3	Dom. Observatory, Canada	
14829	20.20	2.5		R. Afr. Tanger (Ibra), Mor.	
14858	20.20	120		R. Inter Afr., Tanger, Moroc.	
*15000	20.00	2	WWVH	Puunene, Hawaii	
*	20.00	10	WWV	Washington, USA	
*	20.00	2	JJY	Tokyo, Japan	
*	20.00	2	LOL	Buenos Aires, Argentina	
15020	19.98			Hanoi, N. Vietnam	
15030	19.96	15/120		Peking, China	
15050	19.93			Petropavlovsk, USSR	
15060	19.92	120/240		Peking, China	
15062	19.92	1.5		Forest Side, Mauritius	
15070	19.91	15/100	GWC	BBC, London, Gt. Britain	
15095	19.87	120/240		Peking, China	
15097	19.87	5/100	CR7BD	R. Cl. de Mozambique, Moz.	
15100	19.87	10/100		Allouis, France	
	19.87	20		R. Tehran, Iran	
	19.87	100	CSA39	R. Nacional, Portugal	
				15100 – 15450 kc/s (19 m.b.)	
15105	19.86	50	CKUS	R. Canada, Canada	
	19.86	20/100	VUD	Delhi, India	
15110	19.85	15/100	GWG	BBC, London, Gt. Britain	
	19.85			Paradys, So. Africa	
	19.85			Petropavlovsk, USSR	
15115	19.85	1/40	HCJB	Voz de los Andes, Ecuador	
	19.85	10/100		R. Free Europe, Germany	
	19.85	120/240		Peking, China	
15120	19.84	50/60/100		R. Roma, Italy	
	19.84	5/25/50/100		Vatican City, Vatican State	
	19.84	35		Colombo, Ceylon	
	19.84	1		ELWA, Liberia	
15125	19.83	100	CSA64	R. Nacional, Portugal	
	19.83		ZYN31	R. Soc. da Bahia, Brazil	
	19.83	10/100		Allouis, France	
	19.83	20/100		AIR, Delhi, India	
	19.83	100	OLR5D	Praha, Czechoslovakia	
	19.83	35/100		N. Luzon (VOA), Philipp.	
15130	19.83	20/100	VUD	AIR, Delhi, India	
15135	19.82	50/100	JOA6	Tokyo, Japan	
	19.82	7.5	PRB23	R. Panamericana, Brazil	
	19.82	10/100		R. Free Europe, Germany	
	19.82	20/100	VUD	AIR, Delhi, India	
15140	19.82	15/100	GSF	BBC, London, Gt. Britain	
	19.82	0.5/50	BED38	Taipei (BBC), Taiwan	
	19.82			Petropavlovsk, USSR	
	19.82	120/240		Peking, China	
	19.82	20/100	VUD	AIR, Delhi, India	
15145	19.81	10/100		R. Free Europe, Germany	
	19.81	10	ZYK33	R. Jornal do Comercio, Brazil	
	19.81	10/50		Karachi, Pakistan	
15150	19.80	5	CE1515	R. Corporacion, Chile	
	19.80	10	CSA33	R. Atlantico, Portugal	
	19.80	50	WBOU	Bound Brook, USA	
	19.80	100	YDC	Djakarta, Indonesia	
	19.80	100		VOA, Honolulu, Hawaii	
	19.80	50	OAX4T	R. Nacional Lima, Peru	
15152	19.80	10/100	CR7BG	R. Cl. de Mozambique, Moz.	
15155	19.80	100		Hörby, Sweden	
	19.80	20/100	VUD	AIR, Delhi, India	
	19.80	25	ZYB9	R. Dif. de Sao Paulo, Brazil	
15160	19.79	10/50/100		R. Australia, Australia	VLA15
	19.79	20/100	VUD	AIR, Delhi, India	
	19.79	100	TAU	R. Ankara, Turkey	
	19.79	10	XEWW	La Voz de la America, Mexico	
	19.79	110	WLWO	Bethany, USA	
15165	19.78	50	OZF7	Herstedvester, Denmark	
	19.78	20		Damascus, Un. Arab. Rep.	
	19.78	5	ZYN7	Ceará R. Clube, Brazil	
	19.78	110	WLWO	Bethany, USA	
15170	19.78	10/100	LKV	R. Norway, Norway	
	19.78	20/100	VUD	AIR, Delhi, India	
	19.78	10/100		R. Free Europe, Germany	
15175	19.77	10/~~100~~	LLM	R. Norway, Norway	
	19.77	10/50/100		R. Australia, Australia	
	19.77	15/120		Peking, China	
15180	19.76	50	OZF8	Herstedvester, Denmark	
	19.76	15/100	GSO	BBC, London, Gt. Britain	
	19.76	1	OBX4C	R. El Sol, Peru	
15185	19.76	10/100		R. Free Europe, Germany	
	19.76	100	OLR5F	Praha, Czechoslovakia	
	19.76	35/100		N. Luzon (VOA), Philipp.	
15190	19.75	50	CKCX	R. Canada, Canada	
	19.75	5	PRK9	R. Inconfidencia, Brazil	
	19.75	35/50/100		Tangier (~~VOA~~), Morocco	RTF
	19.75	100	OIX4	Pori, Finland	
	19.75	120/240		Peking, China	
15195	19.74	20	TAQ	R. Ankara, Turkey	
	19.74	10/100		R. Free Europe, Germany	
	19.74			Petropavlovsk, USSR	
	19.74			Komsomolsk, USSR	
15200	19.73			Paradys, So. Africa	
	19.74	8/100		München (VOA), Germany	
	19.74	7.5/50		Manila (VOA), Philippines	
	19.74	35/100		N. Luzon (VOA), Philipp.	
	19.74	10/50/100		R. Australia, Australia	VLC15
	19.74	20/50/80	WRUL	R. Boston, USA	
	19.74	35/50/100		VOA, Morocco	
15205	19.73	5	XESC	Heraldo de Junco, Mexico	
	19.73	10/50		Karachi, Pakistan	
15210	19.72	10/50/100		R. Australia, Australia	

kc/s	m	kW	Call	Stations and countries	Rem.
	19.72	15/100	GWU	BBC, London, Gt. Britain	
	19.72	7.5/50		Manila (VOA), Philippines	
	19.72	50	WDSI	Wayne, USA	
	19.72	50/200	KCBR	Delano, USA	
	19.72	1	ZPA7	R. Guarani, Paraguay	
	19.72	8/100		München (VOA), Germany	
15215	19.71	10/100		R. Free Europe, Germany	
	19.72			Komsomolsk, USSR	
	19.72	35/100		Okinawa (VOA), Ryukyu Isl.	
15220	19.71	10/50/100		R. Australia, Australia	
	19.71	100		R. Nederland, Holland	
	19.71	20/50/80	WRUL	R. Boston, USA	
	19.71	7.5	ZL10	Wellington, New Zealand	
15225	19.70	25	CXA64	Montevideo, Uruguay	
	19.70	50/100	JOB9	Tokyo, Japan	
	19.70	0.5/50	BED5	Taipei (BBC), Taiwan	
	19.70	35/100		Tangier (VOA), Morocco	
15230	19.70	5	VLH15	Melbourne, Australia	
	19.70	15/100	GWD	BBC, London, Gt. Britain	
	19.70	10/50/100		R. Australia, Australia	
	19.70	50	WBOU	Bound Brook, USA	
	19.70	35		Colombo, Ceylon (VOA)	
	19.70	20/50/80	WRUL	R. Boston, USA	
	19.70			Khabarovsk, USSR	
15235	19.69	20/100	VUD	AIR, Delhi, India	
	19.69	50/100	JOB5	Tokyo, Japan	
	19.69			Komsomolsk, USSR	
	19.69	120/240		Peking, China	
15240	19.69	20/100	VUD	AIR, Delhi, India	
	19.69	10		R. Belgrade, Yugoslavia	
	19.69	10/100		Allouis, France	
	19.69	100		Hörby, Sweden	
	19.69	15/120		Peking, China	
	19.69	10/50/100		R. Australia, Australia	
	19.69	1.5	4VRW	R. Haiti, Haiti	
15245	19.68			Petropavlovsk, USSR,	
15250	19.67	110	WLWO	Bethany, USA	
	19.67	50/200	KNBH	Dixon, USA	
	19.67	100		Bucuresti, Rumania	
	19.67	7.5/50		Manila (VOA), Philippines	
	19.67	120/240		Peking, China	
15252	19.67			Petropavlovsk, USSR	
15255	19.66	10/100		R. Free Europe, Germany	
	19.67	50	CKSR	R. Canada, Canada	
	19.66	50	HLK7	Seoul, Korea	
	19.67	20/50		R. Liberation, Germany	
15257	19.66	10		Tokyo (FEN), Japan	
15260	19.66	15/100	GSI	BBC, London, Gt. Britain	
	19.66	120/240		Peking, China	
15265	19.66	10/100		R. Free Europe, Germany	
	19.65	35		Colombo, Ceylon (VOA)	
15270	19.65	50	WBOU	Bound Brook, USA	
	19.65	50	WDSI	Brentwood, USA	
	19.65	120/240		Peking, China	
	19.65	35		Courier (VOA), Greece	
	19.65	35/100		N. Luzon (VOA), Philipp.	
	19.65	20/100	VUD	AIR, Delhi, India	
15275	19.64	100	DMQ15	Deutsche Welle, Germany	
	19.64	35/100		N. Luzon (VOA), Philipp.	
	19.64	7.5/100		Warsaw, Poland	
	19.64	50	CKBR	R. Canada, Canada	
	19.64	10/50		Karachi, Pakistan	
15280	19.63	7.5	ZL4	Wellington, New Zealand	
	19.63	20	ORU5	Bruxelles, Belgium	
	19.63	20		Paradys, So. Africa	
	19.63			R. Nat. Marocaine, Morocco	
15285	19.63	35		Salonika (VOA), Greece	
	19.63	100		Praha, Czechoslovakia	
15290	19.62	7.5/10	LRU	R. El Mundo, Argentina	
	19.62	50/200	KNBH	Dixon, USA	
	19.62	120/240		Peking, China	
	19.62	110	WLWO	Bethany, USA	
15295	19.62	10/100		Allouis, France	
	19.62	35/50/100		Tangier (VOA), Morocco	
	19.61	10/100		R. Free Europe, Germany	
15300	19.61	15/100	GWR	BBC, London, Gt. Britain	
	19.61	7.5/100		BBC, Singapore, Malaya	
	19.60	2	DZH9	Call of the Orient, Philipp.	
	19.61	0.25	XERUU	Chihuahua, Mexico	
15305	19.60	100	HER6	Schwarzenburg, Switzerland	
	19.60			Kiev, USSR	
15310	19.60	15/100	GSP	BBC, London, Gt. Britain	
	19.60	7.5/100		BBC, Singapore, Malaya	
15315	19.59	50/200	KCBR	Delano, USA	
	19.59	50/100		Cairo, Un. Arab. Rep.	
	19.59	100	HEU6	Schwarzenburg, Switzerland	
	19.59	35		Salonika (VOA), Greece	
	19.59	10/50/100		R. Australia, Australia	VLA 15
15320	19.58	10/50/100		R. Australia, Australia	VLC 15
	19.58	50	CKCS	R. Canada, Canada	
	19.59			Kaunas, USSR	
15325	19.58	50	WBOU	Bound Brook, USA	
	19.58	50/60/100		R. Roma, Italy	
	19.58	50/100	JOB21	Tokyo, Japan	
15330	19.57	25/100	WGEO	Schenectady, USA	
	19.57	35/100		N. Luzon (VOA), Philipp.	
	19.57	10/100		Allouis, France	
	19.57	50	WBOU	Bound Brook, USA	
	19.57	110	WLWO	Bethany, USA	
	19.57	50/100		Cairo, Un. Arab. Rep.	
15335	19.56	10/50		Karachi, Pakistan	
	19.56	10	ZYU68	R. Soc. Farroupilha, Brazil	
	19.56	100	ORU3/4	Bruxelles, Belgium	
	19.56			Komsomolsk, USSR	
15340	19.56	35/50/100		Tangier (VOA), Morocco	
	19.56	8/100		München (VOA), Germany	
15345	19.55	5/7.5		Athens, Greece	
	19.55	0.5/50	BED57	Taipei (BBC), Taiwan	
	19.55	100	LRA33	R. Nacional, Argentina	
	19.55	3.5		R. Addis Ababa, Ethiopia	
15350	19.54	10/100		Allouis, France	
	19.54	5		R. Luxembourg	
	19.54	50	WDSI	Wayne, USA	
15355	19.54	10/100		R. Free Europe, Germany	
15360	19.53	15/100		BBC, London, Gt. Britain	
	19.53	7.5/100		BBC, Singapore, Malaya	
15365	19.53	10/100		R. Free Europe, Germany	
	19.52	10/50/100		R. Nederland, Holland	
15370	19.52	25	ZYC9	R. Tupi Rio de Janeiro, Brazil	
	19.52	20/50		Radio Liberation, Germany	
	19.52	20/100	VUD	AIR, Delhi, India	
15375	19.51	100	DMQ15	Deutsche Welle, Germany	
	19.51	15/100		BBC, London, Gt. Britain	
15380	19.51	35/50/100		Tangier (VOA), Morocco	
	19.50	100	CSA42	R. Nacional, Portugal	
	19.51	35/100		Okinawa (VOA), Ryukyu Isl.	
	19.51			R. Nac. Marocaine, Morocco	
	19.51	20/50/80	WRUL	R. Boston, USA	
	19.51	50/100		Cairo, Un. Arab. Rep.	
15385	19.50	25	CXA60	R. Sarandi, Uruguay	
	19.50	50		Call of the Orient, Philipp.	
15390	19.49	15/100		BBC, London, Gt. Britain	
	19.49	50/100		Cairo, Un. Arab. Rep.	
15395	19.49	20/50		R. Liberation, Germany	
15400	19.48	10/100		Allouis, France	
	19.48	50/60/100		R. Roma, Italy	
15405	19.47	100	DMQ15	Deutsche Welle, Germany	
	19.47	20/100		R. Free Europe, Germany	
	19.47	35/100		Tangier (VOA), Morocco	
15410	19.47	35/50/100		Tangier (VOA), Morocco	
	19.47	50	HLK8	Seoul, Korea	
	19.47	20/50		R. Liberation, Germany	
15415	19.46	20/50		R. Liberation, Germany	
	19.46	15/100		BBC, London, Gt. Britain	
	19.46	1	ZYR206	Ribeirão Preto, Brazil	
	19.46	20/50/80	WRUL	R. Boston, USA	
15417	19.46	120/240		Peking, China	
15420	19.46	10/100		R. Free Europe, Germany	
	19.46	10/100		Allouis, France	
	19.46	100		R. Nacional, Spain	
	19.46	50		R. Brazzaville, Fr. Equat. Af.	
	19.46	7.5/100		BBC, Singapore, Malaya	
	19.46	15/100		BBC, London, Gt. Britain	
15422	19.46			Novosibirsk, USSR	
15425	19.45	100		R. Nederland, Holland	
	19.45	10/50/100		R. Australia, Australia	
15430	19.45	20/50		R. Liberation, Germany	
	19.44	120/240		Peking, China	
15435	19.44	15/100	GWE	BBC, London, Gt. Britain	
	19.44	7.5/100		BBC, Singapore, Malaya	
15440	19.43	50		R. Brazzaville, Fr. Equat. Af	
	19.43	4		R. QEF, Fr. Equatorial Afr.	
	19.43	8/100		München (VOA), Germany	
15445	19.43	50/100		R. Nederland, Holland	
	19.43	15/120		Peking, China	
15447	19.42	15/100	GRD	BBC, London, Gt. Britain	
				14457 – 17700 kc/s	
15457	19.41			Komsomolsk, USSR	
15460	19.40	1	PZC	Paramaribo, Surinam	
15465	19.39	50/100		Cairo, Un. Arab. Rep.	
15480	19.38	15/120		Peking, China	
	19.38	20/100	VUD	Delhi, India	
15520	19.33	120/240		Peking, China	
15550	19.29	15/120		Peking, China	

kc/s	m	kW	Call	Stations and countries	Rem.
15590	19.24	15/120		Peking, China	
15610	19.22	15/120		Peking, China	
15630	19.19	0.25	HSK8	R. Thailand, Thailand	
15710	19.10	15/120		Peking, China	
15880	18.89	15/120		Peking, China	
17450	17.20	15/120		Peking, China	
17490	17.15	15/120		Peking, China	
17533	17.11	15/120		Peking, China	
17605	17.04	15/120		Peking, China	
17680	16.97	120/240		Peking, China	
**17685	16.96		GIC37	Teddington, Gt. Britain	
17700	16.95	15/100	GVP	BBC, London, Gt. Britain	
	16.95	0.3	4VWI	La Voix Evangelique, Haiti	
		17700 – 17900 kc/s – 16 metre band			
17705	16.94	20/100	VUD	AIR, Delhi, India	
	16.94	10	ZYR94	R. 9 de Julho, Brazil	
	16.94	35/50/100		Tangier (VOA), Morocco	
17710	16.94	110	WLWO	Bethany, USA	
	16.94	20/50/100	WRUL	R. Boston, USA	
	16.94	10/50/100		R. Australia, Australia	
	16.94	50	CHSB	R. Canada, Canada	
17715	16.93	15/100	GRA	BBC, London, Gt. Britain	
	16.93	10	CXA57	Montevideo, Uruguay	
	16.93	10/100		Allouis, France	
17720	16.93	20/100		AIR, Delhi, India	
	16.93	20	TAD	R. Ankara, Turkey	
17725	16.93	10/100		R. Free Europe, Germany	
17730	16.92	15/100	GVQ	BBC, London, Gt. Britain	
17730	16.92	20/100	VUD	AIR, Delhi, India	
	16.92	20/50		R. Liberation, Germany	
	16.92	120/240		Peking, China	
17735	16.92	5/25/50/100		Vatican City, Vatican State	
	16.92	10/100		R. Free Europe, Germany	
	16.92	50	CHRX	R. Canada, Canada	
	16.92	8/100		München (VOA), Germany	
17740	16.91	15/100	GRQ	BBC, London, Gt. Britain	
	16.91	50/60/100		R. Roma, Italy	
17745	16.91	15/100		BBC, London, Gt. Britain	
	16.91	20/50		R. Liberation, Germany	
	16.91	120/240		Peking, China	
	16.91			Komsomolsk, USSR	
	16.91	10/50		Karachi. Pakistan	
17750	16.90	10/50		Karachi, Pakistan	
	16.90	20/50/80	WRUL	R. Boston, USA	
	16.90	35/50/100		Tangier (VOA), Morocco	
	16.90	7.5/50		Manila (VOA), Philipp.	
17755	16.90	7.5/100		BBC, Singapore, Malaya	
	16.90	10/100	LKW	R. Norway, Norway	
	16.90	15/100		BBC, London, Gt. Britain	
	16.90	50/100	JOA23	Tokyo, Japan	
	16.90	20/50/80	WRUL	R. Boston, USA	
17760	16.89	20/100	VUD	AIR, Delhi, India	
	16.89	50/200	KNBH	Dixon, USA	
	16.89	25/100	WGEO	Schenectady, USA	
17765	16.89	35/100		N. Luzon (VOA), Philipp.	
	16.89	20/50		R. Liberation, Germany	
	16.89	120/240		Peking, China	
	16.89	50/100		Cairo, Un. Arab. Rep.	
17770	16.88	50/60/100		R. Roma, Italy	
	16.88	50/200	KCBR	Delano, USA	
	16.88	10/100		R. Free Europe, Germany	
	16.88	7.5	ZL5	Wellington, New Zealand	
17775	16.88	50/100		R. Nederland, Holland	
17778	16.87	5/7.5		Athens, Greece	
17780	16.87	20/100	VUD	AIR, Delhi, India	
	16.87	50	WBOU-5	Bound Brook, USA AFR	
	16.87	50/100		Cairo, Un. Arab. Rep.	
	16.87	15/120		Peking, China	
	16.87	10/100		Allouis, France	
	16.87	35/100		Tangier (VOA), Morocco	
	16.87	35/100		N. Luzon (VOA), Philipp.	
17784	16.87	100	HER7	Schwarzenburg, Switzerland	
17785	16.87	50/100	JOA9/JOB7	Tokyo, Japan	
	16.87	0.3	CR9XM	Macau, Port. China	
	16.87	35/100		Tangier (VOA), Morocco	
	16.87	20/100	VUD	AIR, Delhi, India	
17790	16.86	10/50/100		R. Australia, Australia	VLC17
	16.86	15/100	GSG	BBC, London, Gt. Britain	
	16.86	7.5/100		BBC, Singapore, Malaya	
17795	16.86	20/100	VUD	AIR, Delhi, India	
	16.86	110	WLWO	~~Bethany~~, USA Cincinnati	
	16.86	0.03	OEI37	Wien, Austria	
	16.86	100	JOA22	Tokyo, Japan	
	16.86	10	CR6RZ	Emis. Oficial, Angola	
17800	16.85	10/50/100		R. Australia, Australia	
	16.85	50/100		R. Nederland, Holland	
	16.85	10	OIX5	Pori, Finland	
	16.85	50/60/100		R. Roma, Italy	
	16.85	7.5/100		Warsaw, Poland	
	16.85	35		Salonika (VOA), Greece	
	16.85	35		VOA, Ceylon	
	16.85	35/100		Tangier (VOA), Morocco	
	16.85	50	KGEI	R. St. KGEI, Belmont, U.S.A.	
17805	16.85	10	DZI6	Call of the Orient, Philipp.	
	16.85	10/100		R. Free Europe, Germany	
17810	16.84	15/100	GSV	BBC, London, Gt. Britain	
	16.84	50/100		R. Nederland, Holland	
	16.84	0.5/50	BED63	Taipei (BBC), Taiwan	
	16.84	120/240		Peking, China	
17815	16.84	100	DMQ17	Deutsche Welle, Germany	
	16.84	100	OLR6E	Praha, Czechoslovakia	
	16.84	35/100		Tangier (VOA), Morocco	
17820	16.84	50	CKNC	R. Canada, Canada	
	16.84	20/100		AIR, Delhi, India	
	16.84	35		Colombo, Ceylon	
	16.84	100	TAV	R. Ankara, Turkey	
	16.84	7.5	ZL14	Wellington, New Zealand	
17825	16.83	10/100	LLN	R. Norway, Norway	
	16.83	50/100	JOA20	Tokyo, Japan	
17830	16.83	20/100		AIR, Delhi, India	
	16.83	50	WDSI	Brentwood, USA	
	16.83	35/100		N. Luzon (VOA), Philipp.	
	16.83	10/100		Allouis, France	
	16.83	110	WLWO	Bethany, USA	
17835	16.82	100	CSA209	R. Nacional, Portugal	
	16.82	35/50/100		Tangier (VOA), Morocco	
	16.82	120/240		Peking, China	
	16.82	10/100		R. Free Europe, Germany	
17840	16.82	10/50/100		R. Australia, Australia	VLC17
	16.82	100		Hörby, Sweden	
	16.82	5/25/50/100		Vatican City, Vatican State	
	16.82	10/100		R. Free Europe, Germany	
	16.82	35/100		Tangier (VOA), Morocco	
17845	16.81	100	DMQ17	Deutsche Welle, Germany	
	16.81	100	ORU3/4	Bruxelles, Belgium	
	16.81	20/50/80	WRUL	R. Boston, USA	
	16.81	20/100	VUD	AIR, Delhi, India	
	16.81	35/50/100		Tangier (VOA), Morocco	
	16.81	50/100	JOA21	Tokyo, Japan	
17850	16.81	10/100		Allouis, France	
	16.81	20		Damascus, Un. Arab. Rep.	
	16.81	10	PRL9	R. Nacional, R. de Jan. Brazil	
	16.81	50/200	KCBR	Delano, USA	
	16.81	35/100		Tangier (VOA), Morocco	
	16.81	20/100	VUD	AIR, Delhi, India	
17855	16.80	10/100		R. Free Europe, Germany	
	16.80	20/100	VUD	AIR, Delhi, India	
	16.80	35/50/100		Tangier (VOA), Morocco	
	16.80	50/100	JOA24	Tokyo, Japan	
17860	16.80	15/100		BBC, London, Gt. Britain	
	16.80	120/240		Peking, China	
	16.80	20		Damascus, Un. Arab. Rep.	
17865	16.80	100	VUD	Delhi, India	
	16.80	50	CHYS	R. Canada, Canada	
	16.80	20/50		R. Liberation, Germany	
	16.79			Khabarovsk, USSR	
	16.79			Komsomolsk, USSR	
17870	16.79	50/100	GRP	BBC, London, Gt. Britain	
	16.79	7.5/100		BBC, Singapore, Malaya	
17875	16.79	100	DMQ17	Deutsche Welle, Germany	
	16.79	7.5	PRL2	R. Dif. Educaçao, Brazil	
	16.79	10/100		R. Free Europe, Germany	
17880	16.78	100	CSA45	R. Nacional, Portugal	
	16.78	50	WBOU	Bound Brook, USA	
17885	16.78	10/100		R. Free Europe, Germany	
	16.78	50		R. Brazzaville, Fr. Eq. Afr.	
	16.78	120/240		Peking, China	
17890	16.77	15/50	GVO	BBC, London, Gt. Britain	
	16.77	7.5/100		BBC, Singapore, Malaya	
	16.77	30	HCJB	Voz de los Andes, Ecuador	
	16.77	7.5		Dacca, Pakistan	
17895	16.76	100	CSA66	R. Nacional, Portugal	
	16.76	25	CXA54	Montevideo, Uruguay	
	16.76	10/100		Allouis, France	
	16.76	8/100		München, VOA, Germany	
17900	16.76	120/240		Peking, China	
		17910 – 21450 kc/s			
17910	16.75	0.25		Grenada, Windward Isl.	
17915	16.75	50/100		Cairo, Un. Arab. Rep.	
18640	16.09			Kabul, Afghanistan	
19600	15.31	10		R. Metropolitana, Ecuador	
20000	15.00	1	WWV	Lanham, USA	
		21450–21750 kc/s – 13 meter band			
21450	13.99	100	OLR7A	Praha, Czechoslovakia	

kc/s	m	kW	Call	Stations and countries	Rem.
21455	13.98	35/50/100		Tangier (VOA), Morocco	
21460	13.98	20/50/80	WRUL	Boston, USA	
	13.98	50/200	KCBR	Delano, USA	
21470	13.97	15/100	GSH	BBC, London, Gt. Britain	
21475	13.97	10/50/100		R. Australia, Australia	
21480	13.97	100		R. Nederland, Holland	
21485	13.96	110	WLWO	Bethany, USA	
	13.96	15/100		BBC, London, Gt. Britain	
	13.96	10/100		R. Free Europe, Germany	
	13.96	5/7.5		Athens, Greece	
	13.96	7.5/100		BBC, Singapore, Malaya	
21490	13.96	100	DMQ21	Deutsche Welle, Germany	
21495	13.96	100	CSA67	R. Nacional, Portugal	
21500	13.95	50	WDSI	Brentwood, USA+ Wayne, NY	
	13.95	20/50/80	WRUL	Boston, USA	
21505	13.95	50	WDSI	Wayne, USA	
21510	13.94	100	ORU4	Bruxelles, Belgium	
21515	13.94	5/25/50/100		Vatican City, Vatican State	
	13.94	2	DZ18	Call of the Orient, Philipp.	
	13.94	110	WLWO	Bethany, USA	
21520	13.94	100	HER8	Schwarzenburg, Switzerland	
21525	13.94	0.3	4VWI	La Voix Evangelique, Haiti	
21530	13.93	15/100	GSJ	BBC, London, Gt. Britain	
21535	13.93	0.5		R. ELWA, Liberia	
21540	13.93	10/50/100		R. Australia, Australia	VLD21
	13.93	50	WBOU	Bound Brook, USA+	
21550	13.92	15/100	GST	BBC, London, Gt. Britain	
21560	13.91	50/60/100		R. Roma, Italy	
	13.91	20		Damascus, Un. Arab. Rep.	
	13.91	35		N. Luzon (VOA), Philipp.	
21570	13.91	50	WBOU	Bound Brook, USA	
	13.91	20/100	VUD	AIR, Delhi, India	
21580	13.90	10/100		Allouis, France	
21590	13.90	10/50		Karachi, Pakistan	
	13.90	10/50/100		R. Australia, Australia	
	13.90	25/100	WGEO	Schenectady, USA	
21600	13.89	50	CKRP	R. Canada, Canada	
	13.89	10/100		R. Free Europe, Germany	
21610	13.88	110	WLWO	Bethany, USA	
21620	13.87	10/100		R. Free Europe, Germany	
	13.87	10/100		Allouis, France	
	13.87	50/100	JOB24	Tokyo, Japan	
21630	13.87	15/100	GVT	BBC, London, Gt. Britain	
21640	13.86	15/100	GRZ	BBC, London, Gt. Britain	
	13.86	10/100		Allouis, France	
21650	13.86	100	DMQ21	Deutsche Welle, Germany	
	13.86	15/100		BBC, London, Gt. Britain	
21685	13.86	100	VUB	AIR, Bombay, India	
	13.86	50	WDSI	Wayne, USA	
	13.86	7.5/100		BBC, Singapore, Malaya	
21655	13.85	15/100		BBC, London, Gt. Britain	
	13.86	7.5/100		BBC, Singapore, Malaya	
21660	13.85	15/100	MCX	BBC, London, Gt. Britain	
21665	13.84	10/100		R. Free Europe, Germany	
21670	13.85	5	LLP	R. Norway, Norway	
21675	13.84	15/100	GVR	BBC, London, Gt. Briatin	
21680	13.84	10/50/100		R. Australia, Australia	
	13.84	35/50/100		Tangier (VOA), Morocco	
21685	13.83	20/100	VUD	AIR, Delhi, India	
21690	13.83	50	WDSI	Brentwood, USA	
	13.83	20/100	VUD	AIR, Delhi, India	
21700	13.83	100	CSA49	R. Nacional, Porutgal	
	13.83	20/100	VUD	AIR, Delhi, India	
21705	13.82	35/50/100		Tangier (VOA), Morocco	
	13.82	100	VUB	AIR, Bombay, India	
21710	13.82	50	CHLA	R. Canada, Canada	
	13.82	15/100	GVS	BBC, London, Gt. Britain	
21720	13.81	7.5/100		BBC, Singapore, Malaya	
	13.81	15/100		BBC, London, Gt. Britain	
	13.81	10/100		R. Free Europe, Germany	
	13.81	10/100		Allouis, France	
21725	13.81	100	DMQ21	Deutsche Welle, Germany	
21730	13.81	5	LLQ	R. Norway, Norway	
	13.81	110	WLWO	Bethany, USA	
	13.80	20/100	ORU3/5	Bruxelles, Belgium	
21735	13.80	100	DMQ21	Deutsche Welle, Germany	
21740	13.80	15/100	MCY	BBC, London, Gt. Britain	
	13.80	5/25/50/100		Vatican City, Vatican State	
	13.80	50/200	KCBR	Delano, USA	
21745	13.80	10/100		R. Free Europe, Germany	
*25000	12.00	0.1	WWV	Lanham, USA	
				25600 – 26100 kc/s (11 m.b.)	
25610	11.71	50		R. Nederland, Holland	
25630	11.70	50/200	KCBR	Delano, USA	
25650	11.70	15/100		BBC, London, Gt. Britain	
25720	11.66	15/100	GSR	BBC, London, Gt. Britain	
25750	11.65	15/100	GSQ	BBC, London, Gt. Britain	
25800	11.63	20		Paradys, So. Africa	
25840	11.61	15/100	GSS	BBC, London, Gt. Britain	
25880	11.60	35/50/100		Tangier (VOA), Morocco	
25950	11.56	50	WBOU	Bound Brook, USA	
25990	11.54	50/200	KNBH	Dixon, USA	

LAST MINUTE CORRECTIONS:

AFGHANISTAN: Add: 6005 kc/s 49.96 m.

CANADA: Representative Paris: Benoit Lafleur, 25 rue Dastorg, Paris 8, France. **Cable:** Telcan. Board of Broadcast Governors to administer all radio and television broadcasting in Canada both public and private: Dr. Andrew Stewart, Chairman. Roger Duhamel, Vicechairman. Carlyle Allison, permanent member and twelve other members. New administrative structure of CBC eleven member Board of Directors: J. Alphonse Quimet, President and General. Mgr. Ernest L. Bushnell, Vicepresident and Asst. Gen. Mgr. and nine other members of the Board.

IRAQ: Foreign Sce: On 6030 kc/s 49.75 m: 17.30–18.00 **Persian** 18.00–18.30 **Turkish** 18.30–19.00. **French:** 19.00–19.30 **German** 19.30–20.00 **English** 20.00–21.00.

Norway: Foreign Service: 06.30 (Sun. 07.50) – 07.35 (Sun. 09.50): Delete 15175, add. 9610 kc/s. – From 22.55 – Conclusion: 1578/6130/9610/11735/15175 kc/s.

Pakistan: External Services: English: 08.30–09.15 17745/21590, 10.45–11.00 17745/21590; 15.30–1545 11674/15275; 18.15–19.00 7010/11674; 19.15–20.00 7010/9705 kc/s.

R. MOSCOW – Foreign Service: To EUROPE:

Danish:	**m.b.**	19.00–20.00	25–31–41–257
17.00–17.30	31–41–191	20.00–21.00	25–31–41–320
18.15–18.30	31–41–49–191	21.00–22.00	25–31–41–309–320
21.30–22.00	41–49–191–375	22.00–22.30	25–31–41, 309,32.
Dutch:		**Norwegian:**	
18.00–18.15	31–41	18.30–19.00	31–41–49–375
20.00–20.30	41–31	20.15–20.45	31–41–49–375
20.30–21.00	41–49	21.15–21.30	31–41–49–375
English:		**Portuguese:**	
18.30–20.00	31–41–49	22.00–23.00	25–31
20.00–21.30	31–41–49–216	**Spanish:**	
21.30–22.30	31–41–49–216–227	20.00–21.00	31–41
22.30–23.30	31–41–49–216–227–290–375	21.30–22.30	31–41
		Swedish:	
French:		17.00–17.15	31–41–49–375
06.00–06.30	16–19–25–31	19.45–20.15	31–41–49–375
18.30–21.30	19–25–31–41	20.45–21.15	31–41–49–290–375–522
Germany (to Germany):			
16.00–17.00	19–25–227	**Concerts:**	
17.00–18.30	25–31–227	*06.30–14.30[1])	16–19–25
18.30–20.30	31–41–227	*07.00–15.30[2])	16–19–25
20.30–21.30	31–49	**21.30–22.30	19–41–49–290–375–522
German (to Austria):			
17.00–18.00	19–25	* Ann. in E, F, G, Sp.	
19.30–20.30	25–31	** Ann. in E, F, G.	
Italian:		[1]) exc. Wed. [2])Wed. only	
17.30–18.00	25–31–41		

To SO. EAST ASIA:		09.30–10.00	19–25–31–49
English:	**m.b.**	10.30–11.00	16–19–25–31–49
08.30–09.00	16–19–25	12.00–12.45	16–19–25–31–49
11.15–11.45	16–19–25	13.15–14.00	31–41–49
14.00–14.45	19–25–31–491	**To NO. AMERICA:**	
To FAR EAST:		**English:**	**m.b.**
Japanese:	**m.b.**	23.00–06.00 (Ea. Co.)	25–31–41
21.30–22.00	25–31–41–49	23.00–08.00 (Pa. Co)	19–25–31
08.00–08.30	13–16–19–25		

WORLD PUBLICATIONS

1, Lindorffs alle, Hellerup, Denmark

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STANDARD AND SHORT WAVE PORTABLE RADIO

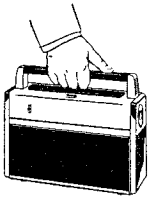
Smallest and lightest band-spread short wave portable ever produced

Here is the ALL TRANSISTOR version of the world-famed Zenith Trans-Oceanic® ...*the original short wave portable radio*

With hundreds of thousands of owners throughout the world, the original Trans-Oceanic Short Wave Portable has been tried, tested and proved for over 16 years. Companion to diplomats, world-travelers, explorers! Its list of owners reads like an International "Who's Who." Now, as a companion to this world-famed Trans-Oceanic, Zenith announces with pride the fabulous new ALL TRANSISTOR Trans-Oceanic Short Wave Portable Radio.

Engineered, Designed and Built in the United States of America

A complete world-wide "radio receiving station" in a sturdy, metal case finished in bright chrome and genuine Black Leather. 12½" wide, 10½" high, 4¾" deep. Approx. Wt. 13 lbs.



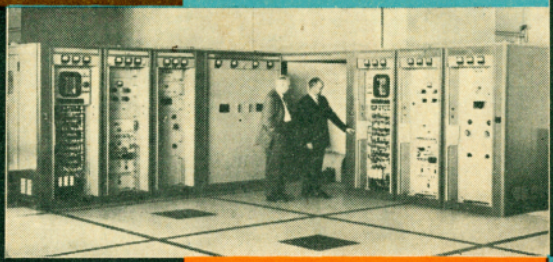
- **POWERED WITH 9 TRANSISTORS TO TUNE IN THE WORLD** . . . Actually 92% more undistorted power output than any other tube type short wave portable! Performs in steel buildings, planes, automobiles, ship-to-ship and ship-to-shore.
- **BEAUTIFUL, REGAL, RUGGED** . . . engineered as soundly as a shock-proof watch. Tropically treated to perform even in high jungle humidity.
- **3 BUILT-IN ANTENNAS** . . . the handle itself telescopes to a vertical Waverod® Antenna for short wave reception. Wavemagnet® Antenna for local broadcasts. Another Wavemagnet Antenna is removable to attach to window in planes, trains, automobiles.
- **8 SUPER SENSITIVE BANDS** . . . including International Short Wave, Standard Broadcast, Marine, Weather, Amateur Short Wave.
- **ROTARY BAND SELECTOR** . . spread-band, slide-rule dial. One knob tunes all 8 bands. Dialite for operation under poor lighting conditions.
- **NEW LOG CHART COMPARTMENT IN FRONT PANEL** . . lists major short wave stations in the world, with their frequencies and hours of best reception.
- **OPERATES ON LOW COST FLASHLIGHT BATTERIES** . available anywhere. Low cost transistor operation eliminates need for tubes, AC/DC power outlet and bulky "B" batteries.

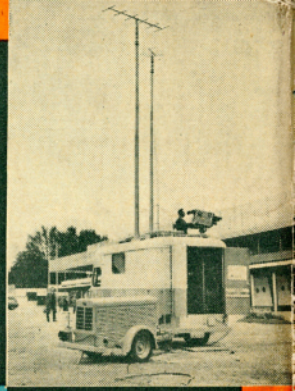
QUALITY BY

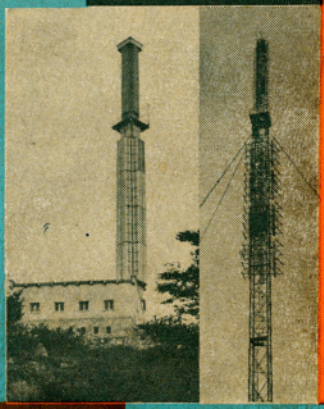
Zenith

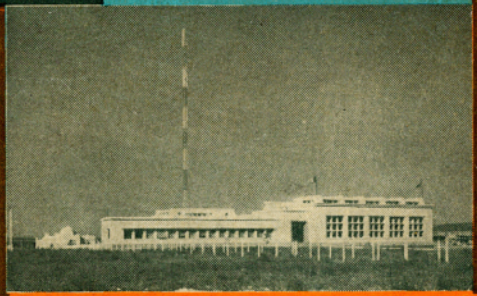
The Royalty of Radio

ZENITH RADIO CORPORATION, INTERNATIONAL DIVISION, CHICAGO 39, ILLINOIS









THOMSON CFTH HOUSTON

COMPAGNIE FRANCAISE THOMSON-HOUSTON - GROUPE ÉLECTRONIQUE - 173, BD. HAUSSMANN, PARIS-8e